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ELECTRONIC COMMUNICATIONS

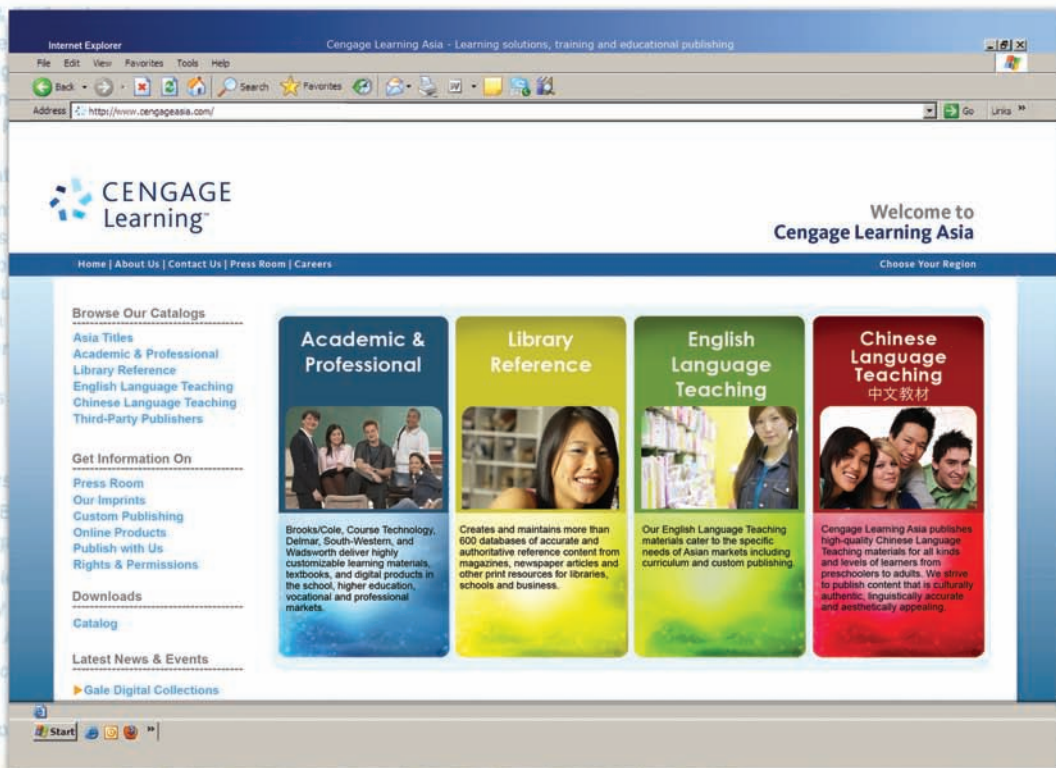
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## CONTENTS

WHAT WE CAN OFFER YOU	1
SURVEY OF ELECTRONICS	2-4
DC/AC CIRCUITS / CIRCUIT ANALYSIS: CONVENTIONAL FLOW & ELECTRON FLOW	5-10
ELECTRONIC DEVICES	11-12
DIGITAL ELECTRONICS	13-16
POWER ELECTRONICS	17
ELECTRONIC COMMUNICATIONS	18
ELECTRONIC COMMUNICATIONS / WIRELESS	19-20
FIBER OPTICS	21-22
TELECOMMUNICATIONS	23-25
INDUSTRIAL ELECTRONICS / MANUFACTURING TECHNOLOGY	26-31
MICROCONTROLLERS / MICROPROCESSORS	32-36
SIGNAL PROCESSING	37-38
RESIDENTIAL INTEGRATION	39-41
RESIDENTIAL NETWORKS	41
LOW VOLTAGE SYSTEMS	42
BIOMEDICAL INSTRUMENTATION	43
SUCCEEDING IN ENGINEERING TECHNOLOGY	44
PC MAINTENANCE, REPAIR AND UPGRADING / A+ CERTIFICATION	45-54
DESKTOP SUPPORT	55
SUSE LINUX	56-59
INTRODUCTION TO NETWORKING/NETWORK+	60-62
COMPUTER TECHNOLOGY	63
TCP / IP / INET+	64
CISCO NETWORKING	65-66
MICROSOFT NETWORKING	67-71
OPERATING SYSTEMS	72
LINUX	73-74
NOVELL NETWORKING	75
LANs / SERVER+	76-77
INFORMATION SECURITY	78-94
MATHEMATICS	95-97

NOTE: The publishing industry is moving toward 13-digit ISBNs (order numbers). In this catalog you will find both versions of the ISBNs. Either can be used when ordering.

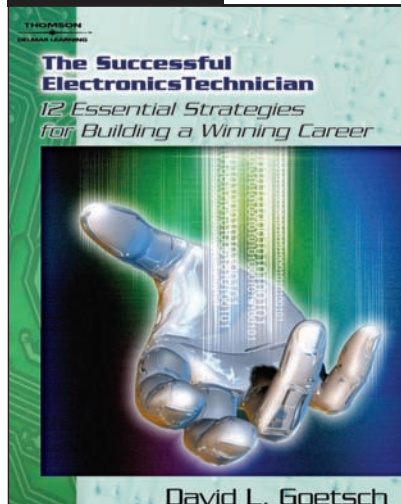
# THE SUCCESSFUL ELECTRONICS TECHNICIAN

David L. Goetsch

ISBN 1-4180-6176-X

ISBN-13: 978-1-4180-6176-0

224 pp, 6" x 9", SC, 1-Color, ©2008



## ABOUT THE AUTHOR

In 1984 **David Goetsch** won the Secretary of Educator's Award in the Outstanding Technical Program in the U.S. Again, in 1986 professor Goetsch's efforts won him the Outstanding Technical Educator Award in Florida. David Goetsch is a member of the American Management Association, the Florida Association of Community Colleges, and the American Society for Quality.

Never before have beginning and aspiring electronic technicians had such a comprehensive resource for learning the skills necessary for career success in the electronics field! The culmination of years of interviews and surveys with top professionals in the industry, *The Successful Electronics Technician* sets out to address this question: In addition to the knowledge and skills learned in school, what does it take to succeed as an electronics technician in today's hyper-competitive workplace? The collected responses were organized into these 12 essential strategies. Practical and hands-on in its approach, this book goes beyond the basics to teach readers not only how to master their electronics coursework, but also how to pursue and obtain the best job, and how to succeed in the job once they have landed it.

## KEY FEATURES

- straightforward, clear writing style allows all readers to benefit and learn the topics covered; no prerequisite knowledge required
- Learning Objectives, Review Questions, Discussion Questions, and Application Assignments develop critical thinking skills and reinforce key concepts
- field-tested strategies that have been proven effective for many industry professionals are included, so readers can feel confident they are following the advice of successful, knowledgeable experts

## CONTENTS

Master your school subjects. Be a smart job seeker. Build your career on a foundation of integrity. Understand your employer's "big picture" and where you fit into it. Apply self-discipline and time management. Be a good team player, team builder, and team leader. Be an effective communicator. Be a critical thinker. Learn to work well in a diverse workplace. Adopt a positive "can-do" attitude toward your work. Learn to positively resolve conflict on the job. Persevere when the job becomes difficult.

# INTRODUCTION TO ELECTRONICS

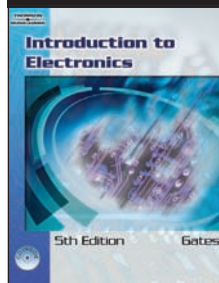
## FIFTH EDITION

Earl Gates

ISBN: 1-4018-8900-X

ISBN-13: 978-1-4018-8900-5

544 pp, 8" x 9-1/4", HC w/CD-ROM, 4-Color, ©2007



Obtain the fundamental background in electronics needed to succeed in today's increasingly digital world! The fifth edition continues to expose readers to the broad field of electronics at a level that can be easily understood, with all-new information on circuit board fabrication, assembly, and repair, as well as practical applications and troubleshooting. Color has been added to all drawings and photos that supplement the descriptions of important concepts and techniques, making it even easier to master basic theory. Coverage is divided into six sections – DC Circuits, AC Circuits, Semiconductor Devices, Linear Circuits, Digital Circuits, and now, Practical Applications – a new section providing hands-on opportunities to apply DC/AC principles.

### CONTENTS

DC Circuits: Fundamentals of Electricity. Current. Voltage. Resistance. Ohm's Law. Electrical Measurements - Meters. Power. DC Circuits. Magnetism. Inductance. Capacitance. AC Circuits: Alternating Current. AC Measurements. Resistive AC Circuits. Capacitive AC Circuits. Inductive AC Circuits. Resonance Circuits. Transformers. Semiconductor Devices: Semiconductor Fundamentals. PN Junction Diodes. Zener Diodes. Bipolar Transistors. Field Effect Transistors. Thyristors. Integrated Circuits. Optoelectric Devices. Linear Electronic Circuits: Power Supplies. Amplifier Basics. Amplifier Applications. Oscillators. Waveshaping Circuits. Digital Electronic Circuits: Binary Number System. Basic Logic Gates. Simplifying Logic Circuits. Sequential Logic Circuits. Combinational Logic Circuits. Microprocessor Basics. Practical Applications: A Printed Circuit Board Fabrication. Printed Circuit Board Assembly and Repair. Basic Troubleshooting. Glossary. Self-Test Answers. Appendices.

### SUPPLEMENTS

**e. resource** ISBN: 1-4018-8903-4

**Instructor's Guide** ISBN: 1-4018-8902-6

**Lab Manual** ISBN: 1-4018-8901-8

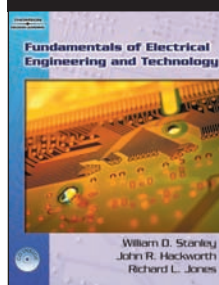
# FUNDAMENTALS OF ELECTRICAL ENGINEERING AND TECHNOLOGY

William D. Stanley, John R. Hackworth & Richard L. Jones

ISBN: 1-4180-0020-5

ISBN-13: 978-1-4180-0020-2

528 pp, 8-1/2" x 11", HC w/CD-ROM, 1-Color, ©2007



This contemporary overview of the electrical and electronics field strikes an effective balance between basic concepts and current relevant topics while also exploring common areas of application. Optional MultiSIM™ exercises are also included so that many of the same types of experiences that would be obtained in a supporting laboratory can be met with the accompanying software and a PC.

### CONTENTS

Basic Circuit Analysis: Basic DC Circuits. General DC Circuit Analysis. Transient Circuits. Alternating Current Circuits: AC Circuits I. AC Circuits II. Electronic Devices and Linear Electronics: Diodes and Their Applications. Transistors. Operational Amplifiers. Digital Electronics: Digital Circuits: Basic Combinational Forms. Digital Circuits: Advanced Combinational Forms. Digital Circuits: Sequential Forms. Power System Fundamentals: Magnetic Circuits. Three-Phase Circuits. Transformers. Electrical Machines: DC Machines. AC Machines. Current Additional Topics: Programmable Logic Controllers. Digital Communications Multism Laboratory. Appendices.

### SUPPLEMENT

**e. resource** ISBN: 1-4180-0021-3



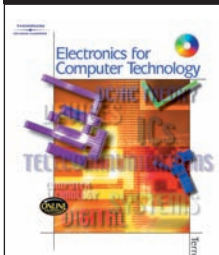
# ELECTRONICS FOR COMPUTER TECHNOLOGY

David Terrell

ISBN: 0-7668-3872-2

ISBN-13: 978-0-7668-3872-7

800 pp, 8-1/2" x 11", HC w/CD-ROM, 2-Color, ©2003



## CONTENTS

Electronic Systems. Basic Electronics and Units of Measure. Basic Components and Technical Notation. Circuits. Circuit Troubleshooting. Alternating Current. Inductors, Capacitors, and Transformers. Semiconductor Technology. Diodes and Diode Circuits. Transistors and Transistor Circuits. Op Amps and Op Amp Circuits. Power Supply and Voltage Regulator Circuits. Thyristors and Optoelectronic Devices. Integrated Circuit Applications. Digital Electronics. Microprocessors and Computers. Telecommunications.

## SUPPLEMENTS

**Instructor's Guide on CD-ROM** ISBN: 0-7668-3875-7

**Lab Manual** ISBN 0-7668-3873-0

**Instructor's Guide** ISBN 0-7668-3874-9

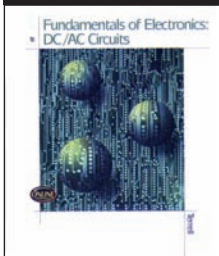
# FUNDAMENTALS OF ELECTRONICS: DC/AC CIRCUITS

David Terrell

ISBN: 0-8273-5340-5

ISBN-13: 978-0-8273-5340-4

1,097 pp, 8" x 10", HC, 4-Color, ©2000



## CONTENTS

Introduction to Electricity and Electronics. Electric Quantities and Components. Electric Circuits. Analyzing Series Circuits. Analyzing Parallel Circuits. Analyzing Series-Parallel Circuits. Complex Circuits and Network Analysis. Electrical Power Sources and Electrical Materials. Direct-Current Test Equipment. Magnetism and Electromagnetism. Alternating Voltage and Current. Inductance and Inductive Reactance. Resistive-Inductive Circuit Analysis. Capacitance and Capacitive Reactance. Resistive Capacitive Circuit Analysis. RLC Circuit Analysis. Mutual Inductance and Transformers. Passive Filter Circuits. Glossary.

## SUPPLEMENTS

**Instructor's Manual** ISBN: 0-8273-5341-3

**Lab Manual** ISBN 0-8273-5342-1

**Instructor's Teaching System** ISBN 0-7668-0655-3

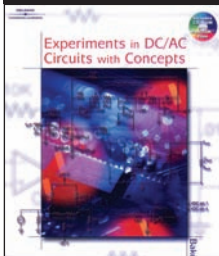
# EXPERIMENTS IN DC/AC CIRCUITS WITH CONCEPTS

Timothy Baker

ISBN: 0-7668-4035-2

ISBN-13: 978-0-7668-4035-5

128 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2002



## CONTENTS

Scientific Notation and Symbols. Open and Closed Circuits. Current. Voltage. Resistance. Power. Resistance in Series. Current in Series. Voltage in Series. Power in Series. Voltage Sources in Series. Voltages Measured to a Ground Reference. Internal Resistance of a Voltage Source. Resistance in Parallel. Voltage in Parallel. Current in Parallel. Power in Parallel. Resistance in a Series-Parallel Circuit. Current in a Series-Parallel Circuit. Voltage in a Series-Parallel Circuit. Wheatstone Bridge. Loaded Voltage Divider. Thevenin's and Norton's Equivalent Circuits. Mesh Current and Superposition. Measure DC Voltage with an Oscilloscope. Transformers. Series and Parallel AC Circuits. Series and Parallel RL Circuits. Series and Parallel RC Circuits. RLC Circuits and Resonance. Low-pass and High-pass Filters. Band-pass and Band-stop Filters.

## SUPPLEMENT

**Online Instructor's Guide** ISBN: 0-7668-4036-0

# FOUNDATIONS OF ELECTRONICS

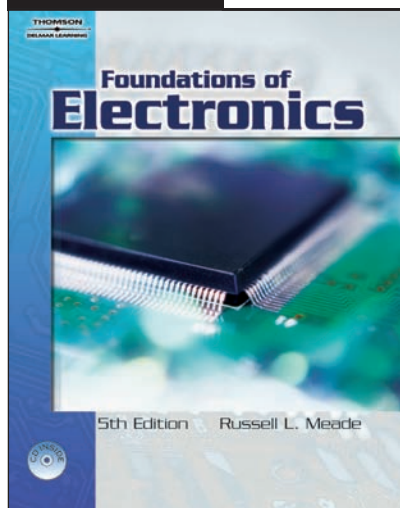
## FIFTH EDITION

Russell L. Meade

ISBN: 1-4180-0538-X

ISBN-13: 978-1-4180-0538-2

832 pp, 8-1/2" x 11", HC w/CD-ROM, 4-Color, ©2007



### ABOUT THE AUTHOR

**Russell L. Meade** obtained his Bachelor of Science degree from Mercer University in Georgia. He possesses more than 11 years of teaching experience in electronics and more than 10 years of business experience in such high-tech industries as Scientific-Atlanta, Electromagnetic Sciences, Inc., and Training Technology, Inc. Russell also has more than 16 years of State Agency Technical Education experience in the field of electronics, and has authored numerous books for electronics education and training.

### ALSO AVAILABLE ELECTRONICS INTO THE FUTURE: CIRCUIT FUNDAMENTALS (Electron Flow Version)

Delmar Learning  
ISBN: 0-7668-0657-X  
STUDENT Version CD-ROM,  
ISBN: 0-7668-0659-6

### ALSO AVAILABLE ELECTRONICS INTO THE FUTURE: CONVENTIONAL FLOW

Delmar Learning  
STUDENT Version CD-ROM,  
ISBN: 1-4018-8850-X

Learn electronics fundamentals for both DC and AC circuits, from Ohm's Law through series and parallel resonant circuits! This highly-acclaimed introduction to the world of electronics technology has been carefully updated to better provide technicians with a foundation in modern electronics needed to launch a career or pursue more advanced study. Real-world color codes and strategic highlighting are integrated with ample color charts, photos, schematics, and diagrams for a solid understanding of circuit behavior that equips readers to progress to more complex topics with ease. This edition features all new, automated calculations for the formulas in the book on the accompanying CD, as well as new information on admittance, susceptance, and more!

### KEY FEATURES

- motivational Preview sections in each chapter inspire readers to want to learn, while in-process learning checks offer opportunities to review key concepts before moving on
- examples and practice problems are provided where they will have the most impact, enabling readers to apply concepts immediately
- unique SIMPLER method teaches important troubleshooting techniques for both "systems-approach" block-diagram-level troubleshooting and "discrete component-level" troubleshooting while developing critical and logical thinking skills
- "Good Ideas," "Helpful Hints," and "Practical Notes" features provide built-in training that can be used in the real world
- computer tools, such as Excel examples, MultiSIM™ circuit files, and "Electronics into the Future" interactive tutorials, provide opportunities to solve electronics problems in a variety of ways

### CONTENTS

Foundational Concepts: Basic Concepts of Electricity, Electrical Quantities and Components. Basic Circuit Analysis: Ohm's Law. Series Circuits. Parallel Circuits. Series-Parallel Circuits. Producing and Measuring Electrical Quantities: Basic Network Theorems. Network Analysis Techniques. Magnetism and Electromagnetism. Measuring Instruments. Basic AC Quantities. The Oscilloscope. Reactive Components: Inductance. Inductive Reactance in AC. RL Circuits in AC. Basic Transformer Characteristics. Capacitance. Capacitive Reactance in AC. RC Circuits in AC. RLC Circuit Analysis. Series and Parallel Resonance. Appendices.

### SUPPLEMENTS

**e.e.resource** ISBN: 1-4180-0539-8  
**WebTutor for Blackboard™** ISBN: 1-4180-5070-9  
**Lab Manual** ISBN: 1-4180-4183-1  
**Instructor's Guide** ISBN: 1-4180-0540-1

# FOUNDATIONS OF ELECTRONICS: CIRCUITS & DEVICES, FIFTH EDITION (ELECTRON FLOW VERSION)

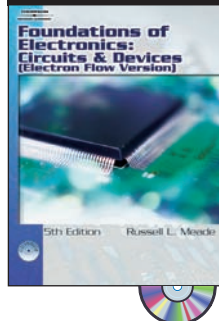
Electron Flow

Russell L. Meade

ISBN: 1-4180-0537-1

ISBN-13: 978-1-4180-0537-5

1,120 pp, 8-1/2" x 11" HC w/CD-ROM, 4-Color, ©2007



*Foundations of Electronics: Circuits & Devices, 5E* includes the same superior content and readability as *Foundations of Electronics, Fifth Edition*, plus strong coverage of solid-state devices theory and important practical circuits in which diodes, BJT's, FET's, MOSFET's and optoelectronic devices are used. The Fifth Edition has been updated to better provide a foundation in power supplies, amplifiers, oscillators, op-amps, and optoelectronic systems that readers need to launch a career or pursue more advanced study. Other enhancements include new, automated calculations for the formulas in the book on the accompanying CD, and all-new information on admittance and susceptance.

## CONTENTS

Same contents as *Foundations of Electronics, 5E*, plus: Introductory Devices and Circuits: Semiconductor Materials and P-N Junctions: Diodes and Diode Circuits. Power Supply Circuits. Bipolar Junction Transistors. BJT Amplifier Circuits. Field-Effect Transistors and Circuits. Operational Amplifiers. Oscillators and Multivibrators. Thyristors. Optoelectronics.

# FOUNDATIONS OF ELECTRONICS: CIRCUITS & DEVICES, SECOND EDITION (CONVENTIONAL FLOW VERSION)

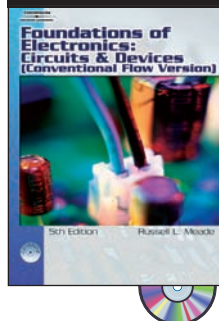
Conventional Flow

Russell L. Meade

ISBN: 1-4180-0541-X

ISBN 13: 978-1-4180-0541-2

1,120 pp, 8-1/2" x 11", HC w/CD-ROM, 4-Color, ©2007



This conventional flow version teaches electronics fundamentals for both DC and AC circuits, from Ohm's Law through series and parallel circuits, and features strong coverage of solid-state devices theory and important practical circuits in which diodes, BJT's, FET's, MOSFET's and optoelectronic devices are used. The Second Edition has been updated to better provide a foundation in power supplies, amplifiers, oscillators, op-amps, and optoelectronic systems that readers need to launch a career or pursue more advanced study. Real-world color codes and strategic highlighting combine with color charts, photos, schematics, and diagrams to build an understanding of circuits and devices that bridges the gap between must-know theory and hands-on circuit work. Other enhancements include new, automated calculations for the formulas in the book on the accompanying CD, and all-new information on admittance and susceptance.

## CONTENTS

Same contents as *Foundations of Electronics, 5E*, plus: Introductory Devices and Circuits: Semiconductor Materials and P-N Junctions: Diodes and Diode Circuits. Power Supply Circuits. Bipolar Junction Transistors. BJT Amplifier Circuits. Field-Effect Transistors and Circuits. Operational Amplifiers. Oscillators and Multivibrators. Thyristors. Optoelectronics.



# CIRCUIT ANALYSIS: THEORY AND PRACTICE, FOURTH EDITION

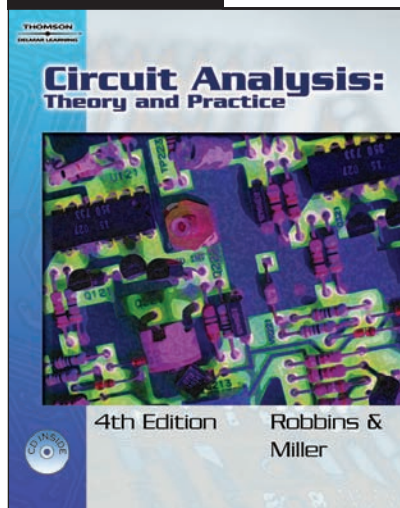
Conventional Flow

Allan H. Robbins &amp; Wilhelm Miller

ISBN: 1-4180-3861-X

SBN 13: 978-1-4180-3861-8

984 pp, 8" x 10", HC w/CD-ROM, 4-Color, ©2007



Written for a first course in circuit analysis at the Electronics Engineering Technologist level, this updated edition provides comprehensive coverage of fundamental circuit analysis topics including standards of DC and AC, methods of analysis, capacitance, inductance, magnetism, simple transients, and more. Unique learning features enhance every chapter, such as “Putting it into Perspective” historical vignettes and “Putting it into Practice” applications. A hallmark of this edition is the revised back of book CD containing a wealth of learning material for students and instructors to utilize.

## KEY FEATURES

- over 1,200 full color diagrams and photos illustrate concepts, add clarity, and aid comprehension in visual learners
- over 1,600 practice problems, in-process learning checks, and end-of-chapter problems encourage students to become active learners by practicing newly learned skills
- “Putting it into Practice” tasks provide an added challenge to students who must reason their way through real-life situations likely to be found on the job
- accompanying CD-ROM features: Audio clips (authors explain challenging concepts); “Electronics into the Future” interactive tutorials (covering major concepts); MultiSIM™ circuit files; For Further Investigation; Capture PSpice circuit files
- If you would like to customize a text for your Circuits and Devices classes that uses the Robbins & Miller Circuits chapters plus selected Devices chapters available through our custom database, contact your local sales representative or visit TextChoice at [www.textchoice.com](http://www.textchoice.com) and learn how Custom Solutions can help you teach your course, your way.

## ABOUT THE AUTHORS

**Allan Robbins**, B.Sc. (EE), M.Sc. (EE) is an Instructor for Electronic Engineering Technology at Red River College in Winnipeg, Manitoba. He has served as both Section Chair and Treasurer of the Electronics Industry Association of Manitoba and was formerly Director of Training at the Industrial Applications of Microelectronics Center.

**Wilhelm Miller** is the chair of the Electronic Engineering Technology Department at Red River College in Winnipeg, Manitoba. He has served as President of the Certified Technicians and Technologists Association of Manitoba (CTTAM). He is also the Chair of the Panel of Examiners for the CTTAM, and is a member of the IEEE.

## CONTENTS

Part I: Foundation DC Concepts: Introduction. Voltage and Current. Resistance. Ohm's Law, Power, and Energy. Part II: Basic DC Analysis: Series Circuits. Parallel Circuits. Series-Parallel Circuits. Methods of Analysis. Network Theorems. Part III: Capacitance and Inductance: Capacitors and Capacitance. Capacitor Charging, Discharging, and Simple Waveshaping Circuits. Magnetism and Magnetic Circuits. Inductance and Inductors. Inductive Transients. Part IV: Foundation AC Concepts: AC Fundamentals. R, L, and C Elements and the Impedance Concept. Power in AC Circuits. Part V: Impedance Networks: AC Series-Parallel Circuits. Methods of AC Analysis. AC Network Theorems. Resonance. Filters and the Bode Plot. Transformers and Coupled Circuits. Three-Phase Systems. Nonsinusoidal Waveforms. Appendices.

## SUPPLEMENTS

**e.e.resource** ISBN: 1-4180-3863-6

**Lab Manual** ISBN: 1-4180-3864-4

**Web Tutor for Blackboard™** ISBN: 1-4180-5457-7

# CIRCUIT ANALYSIS ESSENTIALS: A SIGNAL PROCESSING APPROACH

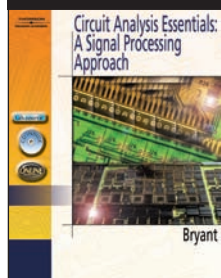
Conventional Flow

James E. Bryant

ISBN: 1-4018-5041-3

ISBN-13: 978-1-4018-5041-8

528 pp, 8-1/2" x 11", HC w/CD-ROM, 2-Color, ©2006



This book presents fundamentals of DC and AC circuit analysis through a signal processing approach that is relevant to a contemporary electronics curriculum. A focus on signal processing circuits emphasizes the practicality and usefulness of circuit analysis. A back of book CD in includes MultiSIM™ and MATLAB® files.

## CONTENTS

An Introduction to Electronic Signals. Essentials of Analysis of DC Combination Circuits. The Sine Wave and Linear Response. Essentials AC Circuit Analysis. Signal Processing Circuit Analysis and Design. Transient Circuit Analysis. Network Analysis and Selected Theorems. Power Considerations in Electronic Circuits. Analysis of Non-Linear Analog Circuits. An Introduction to Non-Sinusoidal Signals. Appendices

## SUPPLEMENTS

**e.resource** ISBN: 1-4018-5043-X

**Lab Manual** ISBN: 1-4018-5042-1

# USING MULTISIM: TROUBLESHOOTING DC/AC CIRCUITS, FOURTH EDITION

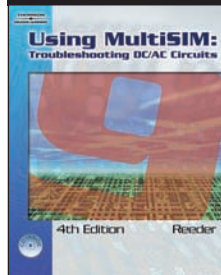
Electron Flow

John Reeder

ISBN: 1-4180-6336-3

ISBN 13: 978-1-4180-6336-8

176 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2007



Now updated to MultiSIM™ 9, this workbook supplements basic DC/AC instruction and demonstrates how to troubleshoot faulty circuits using MultiSIM as the standard tool. Working on the computer, readers will learn to make measurements, determine faults, replace components, and test results using the same processes and techniques that would be used in an actual hardware lab. This highly engaging approach quickly builds the skill and confidence levels necessary to do live circuit troubleshooting in real-world situations. *Using MultiSIM: Troubleshooting DC/AC Circuits, Fourth Edition* can also be used as a stand-alone guide for fostering a thorough understanding of basic circuit fundamentals. The accompanying CD contains all circuit files created in MultiSIM necessary to complete workbook assignments and activities.

## CONTENTS

Introduction to MultiSIM™: the Electronics Lab in the Computer. Introduction to Electricity and Electronics: Electrical Quantities and Components. Electric Circuits. Analyzing and Troubleshooting Series Circuits. Analyzing and Troubleshooting Parallel Circuits. Analyzing Series-Parallel Circuits. Basic Network Analysis. Electrical Power Sources using MultiSIM™ Test Equipment. Electromagnetic Devices. Alternating Voltage and Current. Inductance and Inductive Reactance. Resistive-Inductive Circuits. Capacitance and Capacitive Reactance. Resistive-Capacitive Circuits. Resistive-Inductive-Capacitive Circuits. Transformer Circuits. Passive Filter Circuits.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4180-6337-1

# DC/AC CIRCUITS & ELECTRONICS: PRINCIPLES & APPLICATIONS

Robert J. Herrick

Conventional Flow

ISBN: 0-7668-2083-1

ISBN-13: 978-07668-2083-8

1,088 pp, 8" x 9-1/4", HC w/CD-ROM, 1-Color, ©2003



This book teaches readers how to apply basic laws and analysis techniques to traditional introductory circuits as well as popular, real-world DC and AC circuits. It engages readers in interesting and useful concepts from the start, guiding them in their efforts to learn how to develop and apply fundamental laws. Circuit theorems and analysis techniques that are practical and typically used in real-world circuit analysis are emphasized.

## CONTENTS

Units and Number Notation. Current, Voltage and Common Resistance. Resistance Applications. KCL—Kirchhoff's Current Law. KVL—Kirchhoff's Voltage Law. Ohm's Law, Power, and Energy. Series Circuits. Essentially Series. Parallel Circuits. Series-Parallel Circuits. Waveforms. Capacitance and Reactance. RC Switching Circuits. Wave Shaping and Generation. Inductance and RL Circuits. Transformer. Power Supply Applications. Dependent Sources. Special Analog Integrated Circuits.

## SUPPLEMENTS

**e.resource** ISBN: 0-7668-2084-X

**Instructor's Guide** ISBN: 1-4018-5253-X

**Lab Manual** ISBN: 1-4018-8040-1

# ADVANCED AC ELECTRONICS: PRINCIPLES & APPLICATIONS

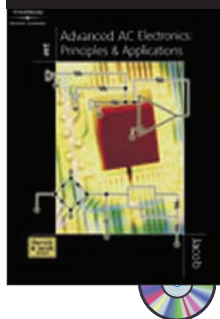
J. Michael Jacob

Conventional Flow

ISBN: 0-7668-2330-X

ISBN-13: 978-0-7668-2330-3

480 pp, 8" x 9-1/4", HC w/CD-ROM, 1-Color, ©2003



Readers will learn how to apply AC circuit techniques to electronics circuits in ways that are interesting and practical. The text engages readers in applying circuit theory to a wide variety of passive and active electronics including commercial electrical power production and distribution, industrial motor performance and control, audio systems, instrumentation, radio frequency, and communications circuits.

## CONTENTS

Sinusoidal Fundamentals. R,L,C. Series Circuits. Parallel Circuits. Filter Terminology. Low Pass Filter. High Pass Filter. Amplifier Frequency Response. Resonance. Nonsinusoidal Waveforms. Harmonic and Reconstruction and Extraction by Superposition. Superposition Analysis of Circuit Response to Nonsinusoidal Waveforms. Series-Parallel Analysis by Impedance Combination. Thevenin's and Norton's Theorems. Mesh and Nodal Analysis. Single Phase AC Power. Three Phase Systems. Magnetics for AC Circuits. Practical AC Power Transformers.

## SUPPLEMENT

**Instructor's Guide** ISBN: 0-7668-2331-8

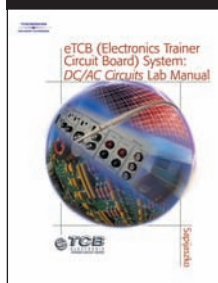
# eTCB (ELECTRONICS TRAINER CIRCUIT BOARD) SYSTEM

Carlo Sapijaszko

ISBN: 1-4018-3979-7

ISBN-13: 978-1-4018-3979-6

Electronics Trainer Circuit Board, ©2005



The Electronics Trainer Circuit Board System featuring eTCB, combines virtual and physical instruments in a cost effective package. The eTCB system provides a powerful educational solution for students to perform real world lab experiments. Innovative and pedagogically rich, the system allows students to develop industry-relevant experience, by working with real components on a printed circuit board (PCB). Complete with configurable circuits allowing students to build experiment circuits, the eTCB is the most flexible, practical and cost effective lab environment available today. Just plug eTCB into National Instruments' ELVIS and a PC and you've got a complete electronics laboratory at your finger tips.

## CONTENTS

Required Tools and Equipment, Introduction: Safety, Equipment, and Materials. Scientific Notation and Symbols. Open and Closed Circuits. Current. Voltage. Resistance. Power. Resistance in Series. Current in Series. Voltage in Series. Power in Series. Voltage Sources in Series. Voltages Measured to a Ground Reference. Internal Resistance of a Voltage Source. Resistance in Parallel. Voltages in Parallel. Current in Parallel. Power in Parallel. Resistance in a Series-Parallel Circuit. Current in a Series-Parallel Circuit. Voltage in a Series-Parallel Circuit. Wheatstone Bridge. Loaded Voltage Divider. Thevenin's and Norton's Equivalent Circuits. Mesh Current and Superposition. Measure DC Voltage with an Oscilloscope. Testing Capacitors with an Ohmmeter. Current in Capacitive and Inductive Circuits. Measure AC Voltage Using an Oscilloscope. Series and Parallel AC Circuits. Series and Parallel RL Circuits. Series and Parallel RC Circuits. RLC Circuits and Resonance. Transformers. Coupling and Decoupling Capacitor Circuits. Low-pass and High-pass Filters. Band-pass and Band-stop Filters.

## SUPPLEMENT

**Lab Manual** ISBN: 1-4018-3980-0

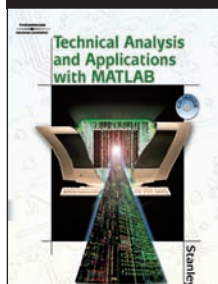
# TECHNICAL ANALYSIS AND APPLICATIONS WITH MATLAB

William Stanley

ISBN: 1-4018-6481-3

ISBN-13: 978-1-4018-6481-1

480 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2005



This text combines various technical and engineering mathematical concepts at a basic level with the use of MATLAB® for support and analysis. Once math concepts are introduced and understood using conventional techniques, MATLAB® is then used as the primary tool for performing mathematical analysis. Featuring practical technical examples and problems, the text is designed for math courses within an engineering technology or engineering program or courses where MATLAB® is used as a supporting tool. The text provides a review of differential and integral calculus with an emphasis on applications to technical problems.

## CONTENTS

MATLAB® Primer. Matrices. Matrix Algebra with MATLAB®. Curve Plotting with MATLAB®. Common Functions and Their Properties. Differential Calculus. Integral Calculus. Calculus Operations with MATLAB®. Differential Equations: Classical Methods. Differential Equations: Laplace Transform Methods. Solution of Differential Equations with MATLAB®. Introduction to Statistics. Curve Fitting and Correlation. Introduction to Spatial Vector Analysis. Complex Numbers. Fourier Analysis with MATLAB®.

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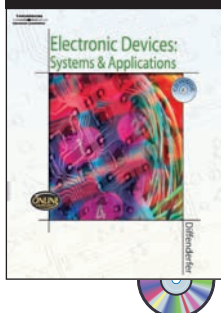
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Robert Diffenderfer

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ISBN-13: 978-1-4018-3514-9

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This concise and modern book explores the characteristics, functions, and applications of electronic devices. A winning combination of sound troubleshooting techniques and a systems-oriented approach demonstrates how devices are used in electronics systems today. In addition to covering diodes, oscillators, and thyristors, the book provides comprehensive coverage of power supplies, op amps, filters, and optoelectronics. Hundreds of examples, practice problems, and review questions further reinforce understanding of how electronic devices are used. LabSource CD included.

## CONTENTS

Circuit Theory Fundamentals. Semiconductor Basics. Introduction to Diodes. Power Supply Circuits. Bipolar Junction Transistors. Field Effect Transistors. Operational Amplifiers Basics. Operational Amplifiers Waveform Response. Filters. Oscillators. Thyristors. Optoelectronics.

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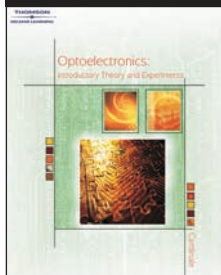
# OPTOELECTRONICS: INTRODUCTORY THEORY AND EXPERIMENTS

Gary Cardinale

ISBN: 0-7668-6268-2

ISBN-13: 978-0-7668-6268-5

120 pp, 8-1/2" x 11", SC, 1-Color, ©2004



Optoelectronics — the study of optics and electronics — affects our everyday lives from the basic use of computers and home entertainment systems to the complex areas of medical science and telecommunications. This introductory-level lab manual introduces the basic concepts of optoelectronics and can be used in any courses dealing with applied physics, fiber optics, or electronic devices. Beginning with a review of topics, such as light characteristics, optical switches, light emitters and detectors, users then develop their own optoelectronics circuits that will be used in conducting experiments.

## CONTENTS

Power Supplies. An Introduction to Light-Basic Concepts. Light Emitters-Green LEDs. Light Detectors-Photoresistors. Optical Switch-A Photoresistor Application. Light Emitters-Red LEDs. Light Emitters-Infrared LEDs. Light Detectors-Phototransistors. Light Detectors-Photovoltaic Cells. Optical Switch-A Phototransistor Application. Optical Switch-An Oscillator-Phototransistor Application. An Introduction to Light-Complex Concepts.



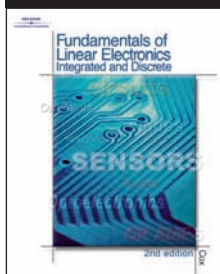
# FUNDAMENTALS OF LINEAR ELECTRONICS: INTEGRATED AND DISCRETE, SECOND EDITION

James Cox

ISBN: 0-7668-3018-7

ISBN-13: 978-0-7668-3018-9

992 pp, 8-1/2" x 11", SC w/CD-ROM, 2-Color, ©2002



Keeping pace with the electronics industry, this edition of our popular *Fundamentals of Linear Electronics* combination book/lab manual features reduced coverage of discrete circuitry to allow readers more time to focus on integrated circuits. The first section of book introduces the building blocks — that is, the components used to build electronics circuits — such as the op-amp that provides the foundation for much of today's modern circuitry. The second section progresses logically into an exploration of the circuitry used to construct electronics systems, including: active filters, oscillators, differential amplifiers, voltage regulators, analog-to-digital converters, digital-to-analog converters, power amplifiers, and phase-control circuits using SCRs and Triacs. Pre-labs at the end of each chapter simulate the hardware lab experiments while requiring use of a calculator and, if possible, verification of results using MultiSIM™ or other electronic analysis software.

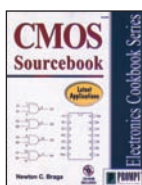
## CONTENTS

Introduction to Diodes. Diode Circuits. Special Diodes. The Bipolar Transistor. Transistor Circuits. Other Transistor Circuits. Junction Field Effect Transistors. MOSFETS. Basics of Operational Amplifiers. Op-Amp Limitations. Op-Amp Applications. Filter Circuits. Sine Wave Oscillator Circuits. Non-Sinusoidal Oscillators. Special IC's. Power Circuits. Thyristors. Power Supply Regulation. Data Conversion. Optoelectronics. Transducers and Actuators.

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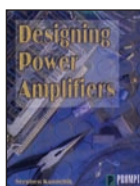
**Instructor's Guide** ISBN: 0-7668-3019-5



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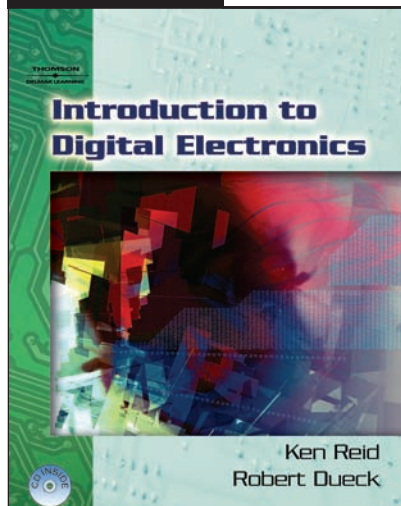
# INTRODUCTION TO DIGITAL ELECTRONICS

Ken Reid & Robert Dueck

ISBN: 1-4180-4102-5

ISBN-13: 978-1-4180-4102-1

896 pp, 8 1/2" x 11", HC w/CD-ROM, 4-Color, ©2008



## ABOUT THE AUTHORS

**Kenneth J. Reid** is an Associate Professor in Electrical and Computer Engineering Technology at Indiana University Purdue University Indianapolis. He holds a Bachelor of Science degree in Computer and Electrical Engineering. In addition, he has received his Master of Science degree in Electrical Engineering and is currently working on his Ph.D. in Engineering Education. Ken is active in the American Society for Engineering Education (ASEE) and in the Institute of Electrical and Electronics Engineers (IEEE) and is the recipient of numerous awards.

**Robert Dueck** received his degree in Electrical Engineering from the University of Manitoba, in Winnipeg, Canada and worked for several years as a design engineer at Motorola Canada in Toronto. He teaches digital design and related courses at Red River College in Winnipeg. Mr. Dueck is a member of the Association of Professional Engineers and Geoscientists of Manitoba (APEGM) and the Institute of Electrical and Electronics Engineers (IEEE).

ALTERA'S QUARTUS® II  
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THE BOOK

The ideal resource to introduce digital concepts, applications, and design, *Introduction to Digital Electronics* uses a logical organization of topics, clear explanations, and current examples to present key information in a way that is easy for the student to grasp. This book's approach uses CPLDs as the primary platform for teaching concepts of combinational and sequential logic.

The book begins by introducing combinational logic at a gate level, using Boolean algebra and TTL/CMOS devices. CPLD design is then introduced, including detailed explanations for implementing simple combinational circuits in the Altera Quartus® II Block Diagram Editor. Subsequent material is presented both at the gate level and using Quartus® II software, preparing readers to successfully navigate more complicated functional blocks, such as decoders, multiplexers, and adders. Formal problem-solving and system design techniques are used to combine several functional blocks to make a combinational logic-based calculator. The design includes simulation and building of each component and, finally, integration into a finished system.

Additional coverage includes sequential circuits such as latches, flip-flops, counters, and shift registers, as well as detailed coverage of finite state machines, analog-to-digital and digital-to-analog converters, and microprocessor and memory concepts.

## KEY FEATURES

- detailed illustrations help explain abstract or complicated concepts
- examples feature modern devices, software, and problems, and showcase the creation of a design and demonstration of the application of the circuit to assist readers to transition from gate level implementation to system level implementation
- end-of-chapter problems encourage readers to apply their knowledge as they progress, and the back-of-book solutions offer them immediate feedback
- glossary terms are included at the end of each chapter to provide a quick and easy reference as readers encounter difficult concepts within a chapter

## CONTENTS

Basic Principles of Digital Systems. Logic Functions and Gates. Boolean Algebra and Combinational Logic. Introduction to PLDs and Quartus II. Combinational Logic Functions. Digital Arithmetic and Arithmetic Circuits. Digital System Application. Introduction to Sequential Logic. Counters and Shift Registers. State Machine Design. Logic Gate Circuitry. Memory Devices, Systems, and Microprocessors. Interfacing Analog & Digital Circuits.

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James Bignell & Robert Donovan

ISBN: 1-4180-2026-5

ISBN-13: 978-1-4180-2026-2

736 pp, 8-1/2" x 11", HC w/CD-ROM, 4-Color, ©2007



## ABOUT THE AUTHORS

**James Bignell** received his Bachelor's and Master's degrees in Industrial Arts. He is a retired instructor from Manatee Community College with over 30 years of teaching experience.

**Robert Donovan** is a full Professor and Program Manager of Electronics Engineering Technology at Manatee Community College. He has taught for over 20 years and also works in the industry at Precise Power Corporation as a research/development engineer.

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## KEY FEATURES

- lab exercises permit readers to utilize multiple approaches when constructing and analyzing circuits, designing and testing circuits, troubleshooting faults, and implementing circuits in a CPLD to help solidify key concepts
- many chapters use MultiSIM™ circuits for troubleshooting so that readers gain practical experience while developing analytical thinking skills
- digital applications and troubleshooting sections present industry-designed circuits and scenarios to illustrate chapter concepts
- optional coverage on programming complex programmable logic devices (CPLDs) using VHDL allow users to gain valuable exposure to a powerful industry-standard programming language. VHDL programs are created, compiled, simulated, and downloaded using Altera's Quartus® II development system, which is available for free on the back of the book CD

## CONTENTS

Number Systems. Logic Gates. Waveforms and Boolean Algebra. Exclusive-OR Gates. Adders. Specifications and Open-Collector Gates. Flip-Flops. Master-Slave D and JK Flip-Flops. Shift Registers. Counters. Schmitt-Trigger Inputs and Clocks. One-shots. Digital-to-Analog and Analog-to-Digital Conversions. Decoders, Multiplexers, Demultiplexers, and Displays. Tri-State Gates and Interfacing to High Current. Memories and an Introduction to Microcomputers. Appendices.

## SUPPLEMENTS

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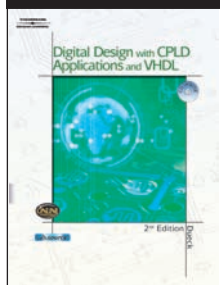
# DIGITAL DESIGN WITH CPLD APPLICATIONS AND VHDL, SECOND EDITION

Robert Dueck

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ISBN-13: 978-1-4018-4030-3

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This second edition continues to use programmable logic as the primary vehicle for teaching digital design principles, and maintains its cutting-edge status by updating to Altera's newest Quartus® II software. This Windows-based software allows users to design, test, and program CPLD designs in text-based (VHDL) and graphic (schematic entry) formats. The second edition introduces CPLDs earlier in the teaching sequence, laying a solid foundation for more advanced principles without neglecting underlying digital fundamentals such as Boolean algebra, logic minimization, and combinational and sequential circuits. VHDL and Quartus® II applications are provided throughout. An accompanying Lab.Source™ CD provides all labs electronically in the form of e-labs for significant cost savings over printed lab manuals. Lab.Builder gives instructors the advantage of being able to create their own labs electronically.

## CONTENTS

Basic Principles of Digital Systems. Logic Functions and Gates. Boolean Algebra and Combinational Logic. Introduction to PLDs and Quartus II. Introduction to VHDL. Combinational Logic Functions. Digital Arithmetic and Arithmetic Circuits. Introduction to Sequential Logic. Counters and Shift Registers. State Machine Design. Logic Gate Circuitry. Interfacing Analog and Digital Circuits. Memory Devices and Systems. Introduction to Microprocessors.

## SUPPLEMENT



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# DIGITAL FUNDAMENTALS: EXPERIMENTS AND CONCEPTS WITH CPLDS

Leo Chartrand

ISBN: 1-4018-4246-1

ISBN-13: 978-1-4018-4246-8

352 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2004



Now students can learn digital principles with just a basic understanding of electrical circuits! This book incorporates CPLD Integrated Circuit technology to teach digital principles. It is designed to allow schools to purchase the affordable Altera laboratory package and immediately begin using it in a lab. Careful attention has been given to present concepts in a systematic and progressive format that creates a positive environment where students can feel confident about what they are doing and learning. A CD-ROM is included that contains animated PowerPoint™ presentations that students can utilize to review digital concepts, as well as VHDL code.

## CONTENTS

Binary Numbers, UP-1 Switches, and Up-1 LED's. Logic Gate Fundamentals. Vending Machine System. Serial Data Control Systems. VHDL Vending Machine System. VHDL Sound Meter. Converting an Older IC Technology Drill Machine System to VHDL. SR Flip Flop Fundamentals. D Flip Flops, Shift Registers and Switch Bounce. Serial Data Transfer System. Data Registers and Parallel Data Transfer Systems. JK Flip Flop Fundamentals. Binary Counter Systems. Counter Feedback and Cascading Counters. BCD Counters and Frequency Division. VHDL Counters and VHDL Shift Registers. Parking Garage Controller System. VHDL Four Floor Elevator Controller System. VHDL Board Game Spinner System. VHDL Traffic Light Controller System.

## SUPPLEMENT

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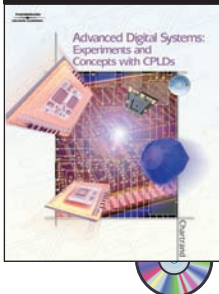
# ADVANCED DIGITAL SYSTEMS: EXPERIMENTS AND CONCEPTS WITH CPLDS

Leo Chartrand

ISBN: 1-4018-6636-0

ISBN-13: 978-1-4018-6636-5

332 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2005



## KEY FEATURES

- explanations of digital concepts give this lab manual the ability to stand on its own as a single source of information — a separate traditional digital text is not needed
- 12 labs in the book help users understand what they are doing and feel confident, creating a valuable, applied, and enjoyable learning experience
- the transition to the Altera laboratory package is affordable, permitting older, more costly TTL IC training kits to be discarded
- larger class sizes can be managed more easily because the new technology is simpler to analyze
- a back-of-book CD-ROM containing PowerPoint™ presentations and VHDL code allows users to review digital concepts in an animated environment

## CONTENTS

Logic Gate Systems. Older Generation Logic Gate Systems Versus CPLD Systems. Flip Flop, Shift Registers, and Switch Bounce. Serial and Parallel Data Transfer Systems. JK Flip Flop and Counter Fundamentals. Digital Display Decoder System. '1 of X' Decoder and Encoder Systems. Multiplexer and Demultiplexer Systems. Matrix Keypad System. Arithmetic Systems. Memory System Fundamentals. Liquid Crystal Displays (LCD). Appendix A: The Evolution of ROM and RAM. Appendix B: VHDL Design Guide. Appendix C: FLEX Expansion Header Guide. Appendix D: Forms and Guides for the DMD Lab 11 Project. Appendix E: Summary Sheet for FLEX Designs: Using 'Lab 1 as a Guide'. Appendix F: Altera Simulator Guide.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4018-6637-9

# USING MULTISIM™: DIGITAL ELECTRONICS

John Reeder

ISBN: 0-7668-1269-3

ISBN-13: 978-0-7668-1269-7

224 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2002



- troubleshooting problems challenge readers of all abilities and development of critical thinking skills.
- pre-created MultiSIM circuit files are available on the accompanying CD-ROM, reducing the time required to build circuits while increasing opportunities to test and analyze them.
- information commonly addressed in digital electronics courses is included, allowing this workbook to be used independently or as a supplement to any digital electronics book.
- the safety of the computer environment eliminates the need for supervision while allowing readers to explore "what-if" scenarios without risk to themselves or to lab equipment.

## CONTENTS

Introduction to Digital Concepts. Logic Gates and Combinational Circuits. Advanced Logic Gates. Arithmetic Circuits. Open Collector Gates and Tri-State Circuits. Sequential Circuits: NAND/NOR Latches. Sequential Circuits: Flip-Flops. Sequential Circuits: Counters. Sequential Circuits: Shift Registers. Schmitt Trigger, One-Shot and Clock Circuits. Digital-to-Analog and Analog-to-Digital Converter Circuits. Decoders, Encoders, Code Converters, and Displays. More Combinational Circuits: Multiplexers and Demultiplexers.



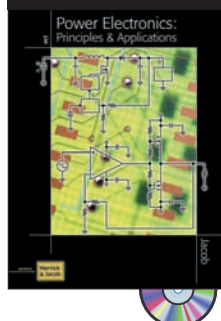
# POWER ELECTRONICS: PRINCIPLES & APPLICATIONS

J. Michael Jacob

ISBN: 0-7668-2332-6

ISBN-13: 978-0-7668-2332-7

512 pp, 8" x 9-1/4", HC w/CD-ROM, 1-Color, ©2002



This book provides broad, yet balanced instruction into the spectrum of power electronics applications, including industrial as well as consumer applications. Beginning with a review of advanced op-amp fundamentals, the book then proceeds to discuss how to design and build power electronics circuits using both prototyping and printed circuit board layout techniques. Power amplifiers, power switches, and switching power supplies follow in detail. The book concludes with in-depth coverage of thyristors and finally, power conversion and motor drive applications. A back of book CD-ROM includes a Textbook Edition of MultiSIM™.

## CONTENTS

Advanced Operational Amplifier Principles. Power Electronics Circuit Layout. Power Parameter Calculations. Linear Power Amplifier Integrated Circuits. Discrete Linear Power Amplifiers. Power Switches. Switching Power Supplies. Thyristors. Power Conversion and Motor Driver Applications.

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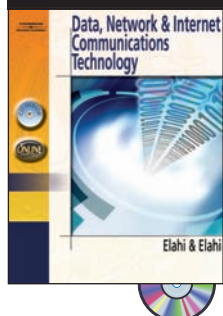
# DATA, NETWORK AND INTERNET COMMUNICATIONS TECHNOLOGY

Ata Elahi & Mehran Elahi

ISBN: 1-4018-7269-7

ISBN-13: 978-1-4018-7269-4

544 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2006



This thorough primer examines the technological aspects of networking through a practical approach. Readers will gain knowledge of local area networks, wide area networks, the Internet, wireless LAN, wireless MAN, and VoIP, as well as ATM and network security. Introductory chapters on foundational topics such as LANs, data communications, and computer architecture give readers the knowledge base they need to understand more complex networking concepts presented in later chapters. This book effectively utilizes a practical approach to networking rather than a strict focus on theory or math, and requires no prior background in communications technology.

## CONTENTS

Introduction to Communications Network. Data Communications. Introduction to Computer Architecture: Communication Channels and Media. Multiplexer and Switching Concepts. Standard Organizations and OSI Model. Modem, Digital Subscriber Line (DSL), Cable Modem and ISDN. Ethernet Technology. Token Ring and Token Bus Networking Technology. Fast Ethernet Technology. LAN Interconnection Devices. Gigabit and 10 Gigabit Ethernet. Fiber Distributed Data Interface (FDDI). Frame Relay. Synchronous Optical Transmission (SONET). Internet Protocols (Part I). Internet Protocols (Part II). and MPLS. Wireless Local Area Network (WLAN). Bluetooth Technology. Wireless MAN. Voice Over IP Protocol (VoIP). Asynchronous Transfer Mode (ATM). Network Security. Universal Serial Bus (USB) and PCI-Express. Appendices.

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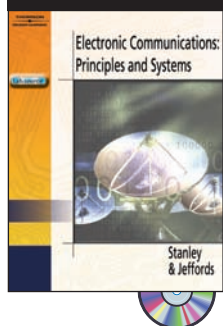
# ELECTRONIC COMMUNICATIONS: PRINCIPLES AND SYSTEMS

William Stanley & Jack Jeffords

ISBN: 1-4180-0003-5

ISBN-13: 978-1-4180-0003-5

720 pp, 8-1/2" x 11", HC w/CD-ROM, 2-Color, ©2006



This distinctive book develops a solid understanding of the overall general principles that govern all communications systems. The mathematical techniques have been kept to a relatively modest level, making the book accessible to readers with only a moderate background in integral and differential calculus, yet its broad coverage provides exposure to such sophisticated analytical techniques as Fourier transforms, spectral analysis, and the performance of systems in the presence of noise. Practical applications and interpretations are stressed, with emphasis on signal processing at the block diagram or systems level, in order to provide a better background for readers as the technology advances and new integrated circuits or modules become available. Back-of-book CD includes lab manual.

## CONTENTS

Introduction Spectral Analysis I: Fourier Series. Spectral Analysis II: Fourier Transforms and Pulse Spectra. Communication Filters and Signal Transmission. Frequency Generation and Translation. Amplitude Modulation Methods. Angle Modulation Methods. Pulse Modulation and Time-Division Multiplexing. Digital Communications I: Binary Systems. Digital Communications II: M-Ary Systems. Computer Data Communications. Noise in Communication Systems. Performance of Modulation Systems with Noise. Transmission Lines and Waves. Introduction to Antennas. Communication Link Analysis and Design. Satellite Communications. Data Network Communications Basics. Wireless Network Communication. Optical Communications. Consumer Communication Systems. Appendices.

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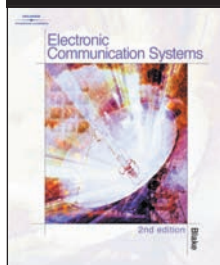
# ELECTRONIC COMMUNICATION SYSTEMS, SECOND EDITION

Roy Blake

ISBN: 0-7668-2684-8

ISBN-13: 978-0-7668-2684-7

864 pp, 8" x 10", HC, 4-Color, ©2002



This book provides electronics technologists with a complete, accurate, and timely introduction to all of the state-of-the-art technologies used in the communications field today. Comprehensive coverage includes traditional analog systems, as well as modern digital techniques. Extensive discussion of today's modern wireless systems is also included. In addition, sections on data communication and the Internet, high-definition television, and fiber optics have been updated in this edition.

## CONTENTS

Introduction to Communication Systems. Radio-Frequency Circuits. Amplitude Modulation. Angle Modulation. Transmitters. Receivers. Digital Communication. The Telephone System. Data Transmission. Local-Area Networks. Wide-Area Networks and the Internet. Digital Modulation and Modems. Multiple-Access Techniques. Transmission Lines. Radio-Wave Propagation. Antennas. Microwave Devices and Circuits. Television. Satellite Communication. Cellular Radio. Personal Communication Systems. Paging and Wireless Data Networking. Fiber Optics. Optical Communication Systems.

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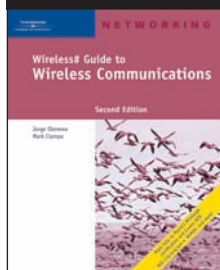
# WIRELESS# GUIDE TO WIRELESS COMMUNICATIONS, SECOND EDITION

Jorge Olenewa & Mark Ciampa

ISBN: 1-4188-3699-0

ISBN-13: 978-1-4188-3699-3

500 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2007



Due to the recent emergence of wireless technologies in business, there has been an increase in demand for skilled wireless professionals. This comprehensive hands-on text explores the latest wireless technologies in the networking industry, including Bluetooth, SWAP, Wireless LANs, 802.11a and 802.11b, cellular telephone, broadband, infrared lasers, microwave, spread spectrum, and satellite. Designed for anyone taking an entry-level wireless technology course, this book also offers important historical coverage of wireless technology to show how we got to where we are today and where we can expect to see wireless networks in the future.

## CONTENTS

Introduction to Wireless Communications. Wireless Data Transmission. Understanding Radio Frequency Communications. How Antennas Work (NEW). Low Rate Wireless Personal Area Networks. WLAN - Wireless Local Area Networks. WMAN-Wireless Metropolitan Area Networks. WWAN-Wireless Wide Area Networks. Satellite Fixed Broadband Wireless. RFID-Radio Frequency Identification. Wireless Communications in Business. Appendix A: Wireless Examination Objectives

## SUPPLEMENTS

**Instructor's Resource** ISBN: 1-4239-0100-2

**Lab Manual** ISBN: 1-4283-3642-7

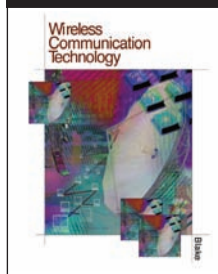
# WIRELESS COMMUNICATION TECHNOLOGY

Roy Blake

ISBN: 0-7668-1266-9

ISBN-13: 978-0-7668-1266-6

640 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2001



The use of wireless communication technologies—including cellular radio, personal communication systems (PCS), satellite phones, paging systems, wireless models, and local-area networks (LANs), plus multipoint distribution systems (LMDS) for wireless delivery of television and internet service—is exploding rapidly. By using *Wireless Communication Technology*, readers will learn the basic electronics information they need to understand these new and emerging wireless communication techniques.

## CONTENTS

Introduction. Analog Modulation Schemes. Digital Communication. Digital Modulation. Basic Telephony. Transmission Lines and Waveguides. Radio Propagation Antennas. Transmitter and Receiver Circuitry. Cellular Systems. Personal Communication Systems. Satellite. Based Wireless Systems. Paging and Wireless Data Networking.

## SUPPLEMENT

**Instructor's Guide** ISBN: 0-7668-1267-7

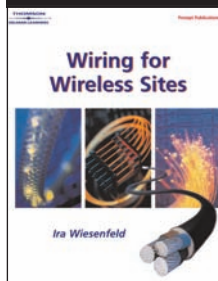
# WIRING FOR WIRELESS SITES

Ira Wiesenfeld

ISBN: 1-4018-1037-3

ISBN-13: 978-1-4018-1037-5

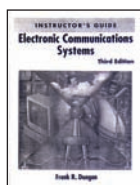
352 pp, 7-7/8" x 9-1/4", SC, 1-Color, ©2003



*Wiring for Wireless Sites* is a concise, yet highly technical resource devoted exclusively to teaching readers the ins and outs of installing equipment in a wireless site. A "go to" resource for site planning engineers, as well as professionals already in the radio and wireless installation and maintenance business, this book virtually eliminates the need for technicians to spend hours linking generic electrical/electronic circuit theory to manufacturer-specific descriptions of cables before moving on to actual installation. Comprehensive coverage spans the spectrum, from equipment layout and wiring through grounding and lightning protection. Helpful learning aids are also included in every chapter to guide readers to new levels of expertise.

## CONTENTS

Wireless Sites. Equipment Layout. Equipment Wiring. AC Power Wiring. 48VDC Wiring. RF Cabling. Antenna Installation. Telephone Wiring. Miscellaneous Wiring and Cabling. Grounding. Lightning Protection.



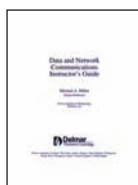
## ALSO AVAILABLE ELECTRONIC COMMUNICATIONS SYSTEMS, THIRD EDITION

Frank R. Dungan  
820 pp, 7-1/2" x 9-1/4", HC,  
2-Color, ©1998

**ISBN: 0-8273-8624-9**

**Instructor's Guide** ISBN: 0-8273-8625-7

**Lab Manual** ISBN: 0-8273-8629-X



## ALSO AVAILABLE DATA & NETWORK COMMUNICATIONS

Michael A. Miller, DeVry University  
544 pp, 7-3/8" x 9-1/4", HC w/CD-ROM, 2-Color,  
©2000

**ISBN: 0-7668-1100-X**

**Instructor's Guide** ISBN: 0-7668-1101-8

# FIBER OPTICS TECHNICIAN'S MANUAL

## FOURTH EDITION

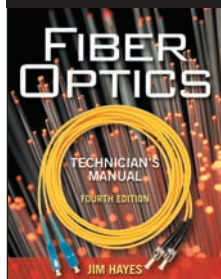
**NEW!**

Jim Hayes

ISBN: 1-4354-9965-4

ISBN-13: 978-1-4354-9965-2

288 pp, 7" x 9", PB, 1-Color, ©2011



FIBER OPTICS TECHNICIAN'S MANUAL, 4E is the ideal practical guide for designers, installers, and troubleshooters of fiber optic cable plants and networks. It reflects recent changes in fiber optic technology, marketing, and applications, including wider usage of Fiber To The Home (FTTH) applications and Local Area Networks (LANs). This book begins with a brief history of the development of fiber optics and progresses from the basics of this technology and its components, to installation and testing. FIBER OPTICS TECHNICIAN'S MANUAL, 4E will provide readers with a comprehensive overview of all aspects of fiber optics as used in communications systems, including telephone, CATV, and computers.

### KEY FEATURES

- Updated to the very latest technology in fiber optics installation and cables.
- An Instructor Resource includes the instructor guide in pdf, PowerPoint slides, and ExamView testbank.
- Reflects the growing importance of this industry because fiber optics is the backbone that enables the expansion of wireless technology, cell phones, the internet and video and camera surveillance.
- Includes contributions based on materials used in the classroom by a number of trainers resulting in content that is organized for ease in teaching the installation, testing, and maintenance of fiber optic cabling systems.
- Includes hands-on labs utilizing actual installation practices for student's enhanced learning.
- Features chapter-end review questions that allow for knowledge assessment and targeted review of topics needing reinforcement.
- Serves as an excellent preparation manual for the Certified Fiber Optic Technician certification exam.
- Provides your students with more hands-on exercises with a separate lab manual.

### CONTENTS

1. Introduction. 2. History of FO Development. 3. Basics of FO. 4. Networks. 5. Cables. 6. Cable Specifications. 7. Connectors and Splices. 8. Fiber Optic Hardware. 9. Getting Started. 10. Guidelines for Fiber Optic Design and Installation. 11. Link Loss Budgets. 12. Safety issues. 13. Planning The Install. 14. Documentation. 15. Estimating and Bidding Networks. 16. Cable Installation. 17. Restoration. 18. Testing.

### SUPPLEMENTS

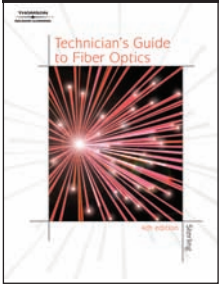
**Instructor's Resources** ISBN: 1-111-28416-4



# TECHNICIAN'S GUIDE TO FIBER OPTICS, FOURTH EDITION

Donald J. Sterling

ISBN: 1-4018-1270-8	ISBN-13: 978-1-4018-1270-6	384 pp, 7-3/8" x 9-1/2", HC, 1-Color, ©2004
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An excellent primer for students beginning to study the subject, this edition provides a practical, real-world perspective on the fundamentals of fiber optic technology and optical communications. It examines the reasons that optical fibers are the preferred communications medium, surpassing copper wire in all performance measures. A thorough explanation of how fibers work is offered, as well as useful coverage of other related optical components and how those components fit into system-level applications. Premises (LAN), metro, 10G Ethernet, and long-haul applications are also briefly surveyed.

**CONTENTS**  
The Communications Revolution. Information Transmission. Fiber Optics as a Communications Medium: Its Advantages. Light. The Optical Fiber. Fiber Characteristics. Fiber-Optic Cables. Sources. Detectors. Transmitters and Receivers. Connectors and Splices. Wavelength-Management Devices. The Fiber-Optic Link. Fiber Optic Cable Installation and Hardware. Fiber-Optic Systems: Enterprise (Premises). Fiber-Optic Systems: Telecommunications and Broadband. Introduction to Test Equipment.

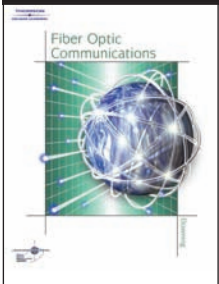
**SUPPLEMENT**

**Instructor's Manual** ISBN: 1-4018-3630-5

# FIBER OPTIC COMMUNICATIONS

James Downing

ISBN: 1-4018-6635-2	ISBN-13: 978-1-4018-6635-8	448 pp, 7-3/8" x 9-1/2", SC, 1-Color, ©2004
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Part of Delmar Learning's National Center for Telecommunications Technologies series, this book offers a complete, concise and practical introduction to fiber optic communications. Coverage begins with a brief history and explanation of the advantages of fiber optics, and a description of basic telecommunication systems. Increased coverage of basic optics and communications provide the background for understanding modern fiber optic devices. Full of detailed descriptions of actual systems applications, the book concludes with practical instruction on the installation and troubleshooting of fiber optic communications networks and systems.

**CONTENTS**  
Introduction to Fiber Optic Communications. Fundamentals of Optics. Characteristics of Optical Fibers. Fiber and Cable Fabrication. Sources and Transmitters. Detectors and Receivers. Fiber Optic Devices. Modulation, Multiplexing and Network Architecture. Fiber Optic Communications Systems. Fiber Optic Test and Measurement. Other Lightwave Communications Applications.

**SUPPLEMENTS**

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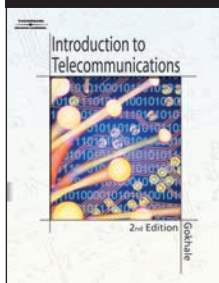
# INTRODUCTION TO TELECOMMUNICATIONS, SECOND EDITION

Anu Gokhale

ISBN: 1-4018-5648-9

ISBN-13: 978-1-4018-5648-9

480 pp, 7-3/8" x 9", HC, 1-Color, ©2005



This updated edition offers a thorough presentation of both the technical and business aspects of data and voice communications, in a single volume! Comprehensive coverage explores all the latest telecommunications technologies and fundamentals, including project management and data/voice networks, that will equip readers with the "big picture" that is crucial to understanding how technology interacts with business in today's information age. Real-world examples accompany all technical material, arming readers not only with theoretical information but the application of those concepts as well. The end result will be a global understanding of telecommunications that includes current and emerging technologies as well as traditional material.

## CONTENTS

An Overview of Telecommunications. Electronics for Telecommunications. Transmission Media. Voice Communications. Wireless Communications. Data Communications. Wide Area Network and Broadband Technologies. Internet and Converged Networks. Network Management. Project Management.

## SUPPLEMENT

**Instructor's Manual** ISBN: 1-4018-5650-0

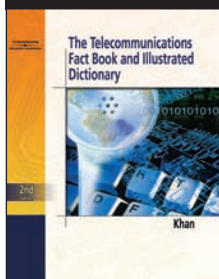
# THE TELECOMMUNICATIONS FACT BOOK AND ILLUSTRATED DICTIONARY, SECOND EDITION

Ahmed Khan

ISBN: 1-4180-1173-8

ISBN-13: 978-1-4180-1173-4

384 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2006



This all-inclusive quick reference has been thoroughly updated to provide the latest information, jargon, and facts on the telecommunications industry in an easily accessible format. Complete with drawings, tables, and photographs, *The Telecommunications Fact Book and Illustrated Dictionary, Second Edition* articulately defines telecommunications terminology through educational modules that are related to voice, data, video, electronic, satellite, and fiber optic communications.

## CONTENTS

"A to Z" listing of definitions of telecommunications

# DATA COMMUNICATION AND NETWORKING

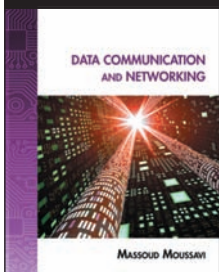
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ISBN-13: 978-1-1111-2504-2

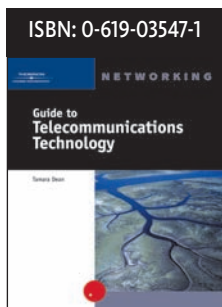
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**NEW!**



# GUIDE TO TELECOMMUNICATIONS TECHNOLOGY

Tamara Dean



ISBN: 0-619-03547-1

ISBN-13: 978-0-619-03547-1

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## CONTENTS

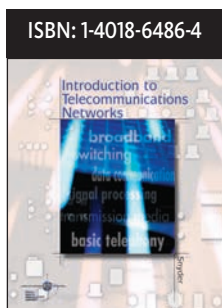
Telecommunications Overview. Principles of Telecommunications Technology. The Evolution of Telecommunications Technology and Policy. The Public Network. Customer Premise Equipment and Applications. Signaling and Switching. Data Networking Fundamentals. Physical Transmission Media. Wireless Transmission Services. Network Access and Transmission Methods. Data Network Connectivity. Internet Standards and Services. Information Security. Convergence of Voice, Video and Data. Appendix.

## SUPPLEMENT

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# INTRODUCTION TO TELECOMMUNICATIONS NETWORKS

Gordon F. Snyder



ISBN: 1-4018-6486-4

ISBN-13: 978-1-4018-6486-6

406 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2003

## CONTENTS

An Introduction and Brief History. Electronic Fundamentals Review, Frequency, Filters, Bandwidth, dB's. The Basic Telephone Set. The Local Loop and Beyond. Transmission Media. Switching. Signaling. Data on the Legacy Network. Computer Networks, Layer 2 LAN Protocols, Broadband for the Masses: xDSL and Cable Modem.

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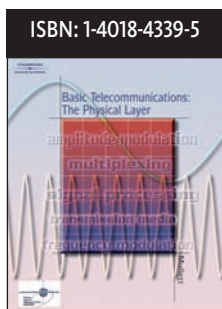
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# BASIC TELECOMMUNICATIONS: THE PHYSICAL LAYER

Gary J. Mullett



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ISBN-13: 978-1-4018-4339-7

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Introduction to Telecommunications. A Technical History of Telecommunications. The Regulatory History of Telecommunications & Telecommunications Standards. Basic Telecommunications Systems Elements. Amplitude Modulation. Frequency Modulation. Pulse Modulation. Digital Modulation. Multiplexing and Access Technologies. Transmission Media. Electromagnetic Propagation. Transmission Lines. Antennas.

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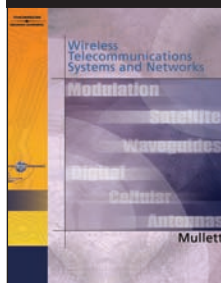
# WIRELESS TELECOMMUNICATIONS: SYSTEMS AND NETWORKS

Gary J. Mullett

ISBN: 1-4018-8659-0

ISBN-13: 978-1-4018-8659-2

640 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2006



Learn the fundamentals of the most popular forms of wireless telecommunications systems, as well as the emerging wireless technologies being used. The comprehensive, broad-based coverage, will provide a deeper understanding of the fundamental operations of wireless technologies used by professionals and technicians involved in the technical support segment of this field. Readers will also gain knowledge about other popular technologies in this and the next generation of wireless telecommunications systems and networks. Lastly, the text serves as a good reference for those who simply need to know more about the fundamentals of present-day wireless telecommunications systems.

## CONTENTS

Introduction to Wireless Telecommunication Systems and Networks. Evolution and Deployment of Cellular Telephone Systems. Common Cellular System Components. Wireless Network Architecture and Operation. GSM and TDMA Technology. CDMA Technology. Cellular Wireless Data Networks – 2.5 and 3G Systems. Wireless Modulation Techniques and Hardware. Wireless LANs / IEEE 802.11x. Wireless PANs / IEEE 802.15x. Broadband Wireless MANs / IEEE 802.16x. Broadband Satellite and Microwave Systems. Emerging Wireless Technologies.

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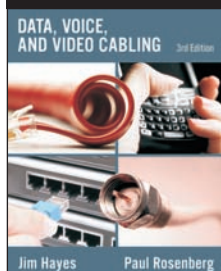
# DATA, VOICE, AND VIDEO CABLING, THIRD EDITION

Jim Hayes & Paul Rosenberg

ISBN: 1-4283-3472-6

ISBN-13: 978-1-4283-3472-4

352 pp, 7-3/8" X 9-1/4", SC, 1-Color, ©2009



This book focuses on the practical aspects of designing, installing, testing and troubleshooting cabling. The latest developments in premises cabling, including wireless networks are addressed. The hands-on processes used in the installation of data, voice, and video cabling are observed using minimal theory and liberal practical advice. Copper cabling is first discussed, including coax, telephone, and Cat 3 and Cat 5 LAN cabling. A section devoted to fiber optics then follows. Information of installation practices such as pulling cables, termination, and testing make this an invaluable reference to both cable installers and contractors.

## CONTENTS

The History of Telecommunications. The Technology of Communications. Overview of Wiring Installations. Structured Cabling. Telephone Wiring. Video System Installations. Network Cabling. Cabling For Wireless Networks. Testing Voice, Data, and Video Wiring. Wiring Termination Practices. Fiber Optic Cabling Systems. Optical Fiber and Cable. Fiber Optic Connectors and Splices. Fiber Optic Testing. Fiber Optic Installation Practices. Business Issues.

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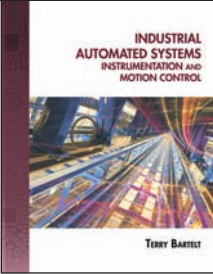
**Lab Manual** ISBN: 1-4283-3473-4

# INDUSTRIAL AUTOMATED SYSTEMS: INSTRUMENTATION AND MOTION CONTROL

Terry L. M. Bartelt

**NEW!**

ISBN: 1-4354-8888-1    ISBN-13: 978-1-4354-8888-5    270pp, 8-1/2" x 10-7/8", HC, 2-Color, ©2011



INDUSTRIAL AUTOMATED SYSTEMS: INSTRUMENTATION AND MOTION CONTROL, is the ideal book to provide readers with state-of-the art coverage of the full spectrum of industrial maintenance and control, from servomechanisms to instrumentation. Readers will learn about components, circuits, instruments, control techniques, calibration, tuning and programming associated with industrial automated systems. INDUSTRIAL AUTOMATED SYSTEMS: INSTRUMENTATION AND MOTION CONTROL, focuses on operation, rather than mathematical design concepts. It is formatted into sections so that it can be used for a variety of courses, such as electrical motors, sensors, variable speed drives, programmable logic controllers, servomechanisms, and various instrumentation and process classes. This book also offers readers a broader coverage of industrial maintenance and automation information than other books and provides them with a more extensive collection of supplements, including a lab manual and two hundred animated multimedia lessons on a CD.

## KEY FEATURES

- Contains two hundred animated multimedia lessons on the Lab Manual CD, identified by icons throughout the book as Learning Objects, to enhance your student's comprehension of the materials presented in the book.
- Ensures relevancy because content is informed by industrial equipment technical literature, professional seminars, engineering consultants, and industrial schools.
- Provides your students with completely updated information on both motion and process control that ensures that the entire spectrum of industrial automation is addressed.
- New innovations in industrial automation such as wireless technology and industrial networking are covered.

## CONTENTS

SECTION I: INDUSTRIAL CONTROL OVERVIEW. 1. Introduction to Industrial Control Systems Introduction. SECTION II: INTERFACING DEVICES. 2. Interface Devices Introduction. 3. Thyristors Introduction. SECTION III: THE CONTROLLER.4. Introduction. Control Modes. On-Off Control. Proportional Control. Proportional- SECTION IV: ELECTRIC MOTORS. 5. DC Motors. 6. AC Motors. 7. Servo Motors. SECTION V: VARIABLE SPEED DRIVES. 8. DC Drives. 9. AC Variable Speed Drive. SECTION VI: PROCESS ONCTROL AND INSTRUMENTATION.10. Pressure Systems. 11. Temperature Control. 12. Flow Control. 13. Level Control Systems. 14. Analytical Instrumentation. 15. Industrial Process Techniques and Instrumentation.16. Instrumentation Symbology.17. Process Control Methods.18. Instrument Calibration and Controller Tuning. SECTION VII: DETECTION SENSORS. 19. Industrial Detection Sensors and Interfacing Introduction. 20. Industrial Wireless Technologies. SECTION VIII: PROGRAMMABLE CONTROLLERS. 21. Introduction to Programmable Controllers. 22. Fundamental PLC Programming. 23. Advanced Programming, PLC Interfacing, and Troubleshooting. SECTION IX: MOTION CONTROL. 24. Elements of Motion Control.25. Motion Control Feedback Devices.26. Fundamentals of Servomechanisms. SECTION X: INDUSTRIAL NETWORKS. 27. Industrial Networking. 28. (On book CD) Industrial Applications.

## SUPPLEMENTS

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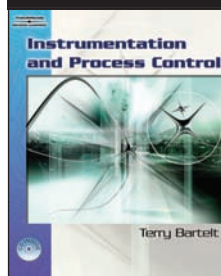
# INSTRUMENTATION AND PROCESS CONTROL

Terry L. M. Bartelt

ISBN: 1-4180-4171-8

ISBN-13: 978-1-4180-4171-7

304 pp, 8-1/2" x 11", HC, 2-Color, ©2007



This book provides comprehensive coverage of components, circuits, instruments, and control techniques used in today's process control technology field. It is ideal for students and technicians who will be installing, troubleshooting, repairing, tuning, and calibrating these devices in a process control facility. Following an overview of an industrial control loop, readers may delve into individual sections to explore each element of the loop in detail. This unique approach results in a logical format that guarantees comprehensive coverage of process control.

## CONTENTS

Introduction to Industrial Control Systems. Interfacing Devices. The Controller Operation. Pressure Systems. Temperature Control. Flow Control. Level Control Systems. Analytical Instrumentation. Industrial Process Techniques and Instrumentation. Instrumentation Symbolology. Process Control Methods. Instrumentation Calibration and Controller Tuning Appendices.

## SUPPLEMENTS

**e.** **e.resource** ISBN: 1-4180-4172-6

**Lab Manual** ISBN: 1-4180-6339-8

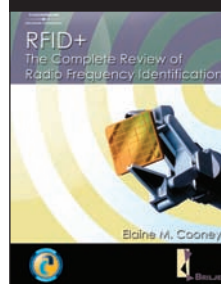
# RFID+: THE COMPLETE REVIEW OF RADIO FREQUENCY IDENTIFICATION

Elaine M. Cooney

ISBN: 1-4180-5231-0

ISBN-13: 978-1-4180-5231-7

304 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2007



With the emergence and success of Radio Frequency Identification Technology comes this impeccable study tool for preparing to take and pass CompTIA's RFID+ certification exam. Engaging graphics illuminate the easy-to-understand explanations of all exam objectives so that students and trainers alike can gain the core skills required to integrate, implement, and maintain RFID systems and components. Comprehensive in nature, the book features a unique Exam Domain Map that identifies each of the objectives for the certification exam and explains where these topics are discussed in the book. More than 100 practice exam questions with answers further reinforce skills and build technical know-how.

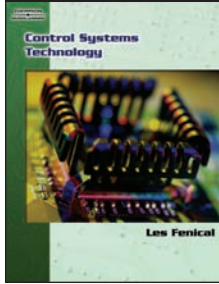
## CONTENTS

Introduction Chapter. Primer. RFID System Lifecycle. Frequency Ranges. Antennas. Tags. Interrogators. Regulations and Standards. Applications. Appendices.

# CONTROL SYSTEMS TECHNOLOGY

Les Fenical

ISBN: 1-4018-7779-6	ISBN-13: 978-1-4018-7779-8	512 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2007
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**CONTENTS**

Introduction to Control Systems. Mathematical Concepts for Control Systems. Control System Devices and Components. Transfer Functions from Block Diagrams and Signal Flow Graphs. Fundamentals of Stability. Feedback and System Concepts. Root-Locus Design. Frequency Response Analysis. Controller Design and Loop Tuning. State-Space Design of Controllers. Discrete Systems. Discrete Control Systems. Discrete PID, PD, PI Control Systems. Discrete Compensation Methods. Discrete State-Variable Methods Appendices.

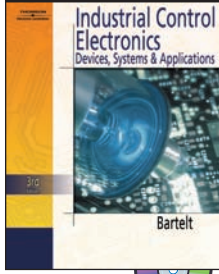
**SUPPLEMENT**

**Instructor's Guide on CD-ROM** ISBN: 1-4018-7780-X

# INDUSTRIAL CONTROL ELECTRONICS: DEVICES, SYSTEMS & APPLICATIONS, THIRD EDITION

Terry L. M. Bartelt

ISBN: 1-4018-6292-6	ISBN-13: 978-1-4018-6292-3	640 pp, 8-1/2" x 11", HC w/CD-ROM, 2-Color, ©2006
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**CONTENTS**

Introduction to Industrial Control Systems. Interfacing Devices. Thyristors. The Controller. DC Motors. AC Motors. Servo Motors. DC Drives. AC Operation Drives. Pressure Systems. Temperature Control. Flow Control. Level Control Systems. Analytical Instrumentation. Industrial Process Techniques and Instrumentation. Process Control Methods. Industrial Detection Sensors and Interfacing. Introduction to Programmable Controllers. Fundamental PLC Programming. Advanced Programming, PLC Interfacing, and Troubleshooting. Motion Control Feedback Devices. Elements of Motion Control. Fundamentals of Servomechanisms. Functional Industrial Systems.

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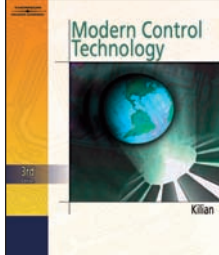
Text Includes:

**Lab.source**

# MODERN CONTROL TECHNOLOGY, THIRD EDITION

Christopher Kilian

ISBN: 1-4018-5806-6	ISBN-13: 978-1-4018-5806-3	672 pp, 8" x 9-1/4", HC, 2-Color, ©2006
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**CONTENTS**

Introduction to Control Systems. Introduction to Microprocessor-Based Control. Operational Amplifiers and Signal Conditioning. Switches, Relays, and Power-Control Semiconductors. Mechanical Systems. Sensors. Direct Current Motors. Stepper Motors. Alternating Current Motors. Actuators: Electric, Hydraulic and Pneumatic. Feedback Control Principles. Relay Logic, Programmable Logic Controllers, and Motion Controllers. Appendices.

**SUPPLEMENT**

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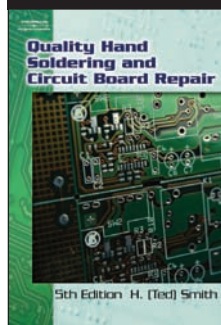
# QUALITY HAND SOLDERING AND CIRCUIT BOARD REPAIR, FIFTH EDITION

H. (Ted) Smith

ISBN: 1-4283-2199-3

ISBN-13: 978-1-4283-2199-1

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With the uncomplicated writing style and step-by-step explanations that made previous editions so successful, *Quality Hand Soldering and Circuit Board Repair, Fifth Edition* has been updated to provide readers the cutting edge information needed to thrive in the industry. Coverage of lead-free soldering and its unique properties is included for the first time in this edition, reflecting current industry trends that have greatly influenced how many companies work and the skills and knowledge their technicians need to remain competitive and in accordance with certain standards. With illustrations to clarify key concepts, this book is the perfect "how-to" guide for technicians, assembly-line personnel, technologists, quality assurance and repair supervisors, as well as professionals who design electronic equipment.

## CONTENTS

General Soldering Information. Soldering Techniques. Stripping and Tinning Stranded Wires. Installing and Soldering Tinned Wires. Components-Through Hole Mount (THM). Components-Surface Mount Technology (SMT). Desoldering-THM and SMT. Evaluation. Conformal Coatings and Solder Masks. Pad and Track Repairs. Run/Track/Trace Repairs. Burn Repairs. Edge Connectors/Fingers. Modifications.

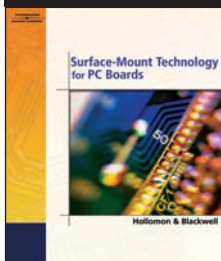
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James Hollomon & Glenn Blackwell

ISBN: 1-4180-0011-6

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## CONTENTS

An Introduction to Surface Mount Technology (SMT). Surface-Mount Components (SMCs). SMT Manufacturing Methods. System Design Considerations for SMT. Printed-Wiring Layout Using SMCs. Assembly-Level Packaging and Interconnections. Quality Assurance in SMT. SMT and Design for Manufacturability. Hybrid Circuits and Multi-Chip Modules (MCMs). Appendices.

## SUPPLEMENT

**Instructor's Manual** ISBN: 1-4180-0012-4

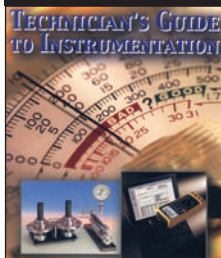
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## CONTENTS

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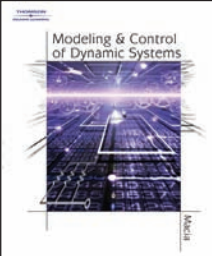
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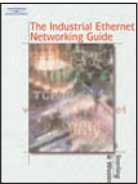
**CONTENTS**

Introduction. Mathematical Background. Modeling of Dynamic Systems. Feedback Control. Stability and Dynamic Response. Time-domain Performance Characteristics. Root Locus Analysis. Frequency Response Analysis. Introduction to the State Space Method. Design of Control Systems. Implementing the Controls Scheme with Hardware: PLCs. Introduction to Digital Control Systems. Case Study: Position Control of a DC Solenoid.

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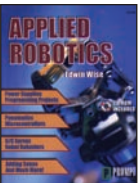
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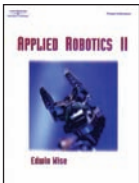
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# TECHNICIAN'S GUIDE TO PROGRAMMABLE CONTROLLERS, FIFTH EDITION

Richard A. Cox & Terry Borden

ISBN: 1-4018-9007-5	ISBN-13: 978-1-4018-9007-0	416 pp, 7-3/4" x 9-1/4", SC, 1-Color, ©2007
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This book's systematic approach enables readers without prior knowledge to gain a comprehensive understanding of what a programmable logic controller is, how it works, plus how it is programmed and installed. Numerous and varied troubleshooting techniques are also introduced, making this book a valuable reference for professional maintenance electricians and plant engineers. Fully updated, the fifth edition now reflects use of personal computers for programming devices, including detailed programming information on both the Allen-Bradley SLC-500 and the MicroLogix family of programmable logic controllers. Supplemental information on logic gates has also been added to assist readers in gaining an understanding of programming and the symbols used.

**CONTENTS**

What is a Programmable Logic Controller (PLC)? Understanding the Input/Output (I/O) Section. Processor Unit. Programming Devices (Programmers). Memory Organization. Numbering Systems. Understanding and Using Ladder Diagrams. Relay Type Instructions. Programming a PLC. Programming Considerations. Program Control Instructions. Programming Timers. Programming Counters. Data Manipulation. Math Functions. Word and File Moves. Sequencers. Programming with Boolean. Understanding Basic MS-DOS Commands. Start Up and Troubleshooting. Glossary. Index.

**SUPPLEMENT**

**Instructor's Manual** ISBN: 1-4018-9009-1

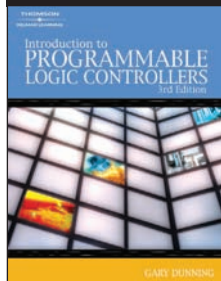
# INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS, THIRD EDITION

Gary Dunning

ISBN: 1-4018-8426-1

ISBN-13: 978-1-4018-8426-0

640 pp, 7-3/4" x 9-1/4", SC, 2-Color, ©2006



Updated to reflect recent industry developments, this edition features practical information on Rockwell Automation's SLC 500 family of PLCs and includes a no-nonsense introduction to RSLogix software and the new ControlLogix PLC. To assist readers in understanding key concepts, the art program has been modernized to include improved illustrations, current manufacturer-specific photos, and actual RSLogix software screens to visibly illustrate essential principles of PLC operation. New material has been added on ControlNet and DeviceNet, and a new chapter on program flow instructions includes updated references to the SLC 500, MicroLogix, and the PLC 5.

## CONTENTS

Welcome to the World of Programmable Logic Controllers. Micro Programmable Logic Controllers. Programming a Programmable Controller. Number Systems. Introduction to Digital and Analog PLC Interface. Introduction to Logic. Input Modules. Output Modules. Putting Together a Modular PLC. PLC Processors. Introduction to ControlNet and DeviceNet. Processor Data Organization. The Basic Relay Instructions. Understanding Relay Instructions and the Programmable Controller Input Modules. Documenting Your PLC System. Timer and Counter Instructions. Comparison and Data-Handling Instructions. Sequencer Instructions. Program Flow Instructions. Appendices.

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**Lab Manual** ISBN: 1-4018-8427-X

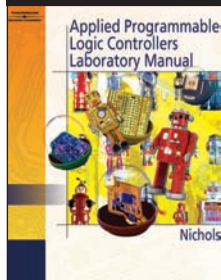
# APPLIED PROGRAMMABLE LOGIC CONTROLLERS LABORATORY MANUAL

Daniel Nichols

ISBN: 1-4018-9967-6

ISBN-13: 978-1-4018-9967-7

178 pp, 8-1/2" x 11", SC, 1-Color, ©2006



Learning programmable logic controllers (PLCs) can be fun when users are able to make connections with familiar control systems like conveyer belts and traffic lights! This innovative Lab Manual uses projects and examples that are based on everyday automated control systems to provide readers with a clear understanding of the "hows" and "whys" involved in the use of latches, timers, counters, sensors, relays, and more. A comprehensive introduction to ladder logic diagrams and PLCs sets the stage for more than 50 project-based lab exercises that effectively expose users to a number of control situations for active, "hands on" learning.

## CONTENTS

Introduction to Ladder Logic Diagrams and PLCs. Latches. Logic Gates. Timers. Drum Sequencers. Counters. Motor Control. PLCs with ADCs and DACs.

## SUPPLEMENT

**Instructor's Manual** ISBN: 1-4018-9968-4



# FUNDAMENTALS OF MICROCONTROLLERS AND APPLICATIONS IN EMBEDDED SYSTEMS (WITH THE PIC18 MICROCONTROLLER FAMILY)

Ramesh Gaonkar

ISBN: 1-4018-7914-4

ISBN-13: 978-1-4018-7914-3

576 pp, 7-3/8" x 9-1/4", HC w/CD-ROM, ©2007



## ABOUT THE AUTHOR

**Ramesh Gaonkar**, a Physics graduate from Bombay University, India, has a degree in Electrical Engineering from Rensselaer Polytechnic Institute, and a Ph.D. from Syracuse University. He joined the teaching profession at Onondaga Community College, State University of New York, after working as an engineer in various industries. At present, he serves as a Professor and Chair of Electrical Technology at the college. He is a recipient of the SUNY Chancellor's award, the ASEE Outstanding Teacher Award (St. Lawrence Section), and the Technology Educator of the Year Award from the Technology Alliance of Central New York. He has also served as the Director of a National Science Foundation project dealing with underprepared students in technology.

Learn microcontroller fundamentals as well as the basics of architecture, assembly language programming, and applications in embedded systems. This comprehensive introduction to the PIC microcontroller text builds an in-depth foundation in microprocessor theory and application. The text features balanced coverage of both hardware and software for a fuller understanding of how microcontrollers function. Readers are systematically guided through fundamental programming essentials of assembly language in a step-by-step process that builds a sound knowledge base for tackling the basic operability of the chip, as well as more advanced applications of the PIC.

## KEY FEATURES

- each topic is covered in depth from basic concepts to industrial applications and illustrated by numerous examples with complete schematics
- the programming section features numerous illustrative examples that include a problem statement, straightforward analysis of the problem, and programming steps needed to solve the problem
- instructions are clearly explained in full detail with helpful examples
- back-of-book CD contains data sheets and source code for use with the programming examples

## CONTENTS

Microprocessor and Microcontroller Fundamentals. Microcontroller Architecture – PIC 18F Family. PIC 18F Programming Model and its Instruction Set. Programming and Problem Solving. Introduction to Data Copy (Move), Arithmetic, and Branch Instructions. Introduction to Logic, Bit Manipulation, and Multiply-Divide Operations. Stack and Subroutines. Application Programs and Software Design. Input/Output (I/O) Ports and Interfacing. Interrupts. Timers. Data Converters. Serial I/O. Designing Embedded Systems. Appendices.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4018-7915-2

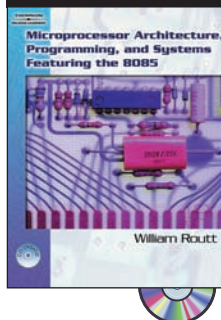
# MICROPROCESSOR ARCHITECTURE, PROGRAMMING, AND SYSTEMS FEATURING THE 8085

William Routt

ISBN: 1-4180-3241-7

ISBN-13: 978-1-4180-3241-8

288 pp, 8-1/2" x 11", NB, 1-Color, ©2007



Here's an entire learning solution in one book, complete with detailed coverage, questions, problems, and lab experiments! *Microprocessor Architecture, Programming, and Systems Featuring the 8085* details the 8085 processor, from both a hardware and software standpoint. Readers will learn pseudo-code and flowcharting as tools in programming a microprocessor that is perfectly written at the intro level. Comprehensive exposure to microprocessor architecture includes an entire chapter devoted to both the hardware and software of the 8051 Microcontroller not found in other books. Coverage also includes a uniquely thorough comparison of the 8085 microprocessor with other Motorola and Intel microprocessors.

## CONTENTS

Introduction to Microprocessors. The Hardware Architecture of a General Microprocessor-Based System. Programming a General Microprocessor. The Hardware Architecture of the 8085 Microprocessor. Programming the 8085 – Basic Commands. Programming the 8085 – Advanced Techniques. General Purpose Support Chips. System Applications. Microcontrollers. Comparison of the 8085 to other Microprocessors.

## SUPPLEMENT

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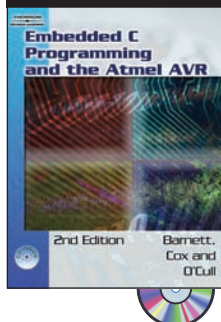
# EMBEDDED C PROGRAMMING AND THE ATMEL AVR, SECOND EDITION

Richard H. Barnett, Sarah Cox & Larry O'Cull

ISBN: 1-4180-3959-4

ISBN-13: 978-1-4180-3959-2

560 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, 2007



One of the only books available today that uses the increasingly popular and cost-effective Atmel AVR embedded controller as the platform and application for learning, *Embedded C Programming and the Atmel AVR* is the perfect choice for novices. Featuring a host of fully-functional example applications, this highly innovative book enables users to adopt a "learn by doing" approach as they develop the knowledge and skills needed to achieve proficiency. Back-of-book CD contains example programs from the text plus CodeVision AVR IDE and C Compiler evaluation versions, providing users with everything they need to get started while enabling instructors to enhance lectures.

## CONTENTS

Introduction. The Atmel AVR RISC Processors. Embedded C Language Tutorial. The CodeVision AVR C Compiler. Library Functions Reference. Programming Examples.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4180-3960-8

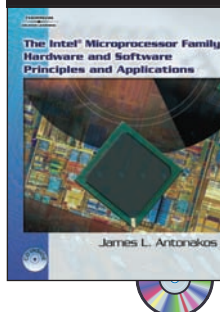
# THE INTEL® MICROPROCESSOR FAMILY: HARDWARE AND SOFTWARE PRINCIPLES AND APPLICATIONS

James L. Antonakos

ISBN: 1-4180-3845-8

ISBN-13: 978-1-4180-3845-8

640 pp, HC w/CD-ROM, 1-Color, ©2007



Readers will be able to build and program their own 8088 single-board computer by applying the interfacing concepts and techniques presented in this book. Coverage begins with the software architecture of the 80x86 family, including the software model, instruction set and flags, and addressing modes. Abundant examples illustrate basic programming concepts such as the use of data structures, numeric conversion, string handling, and arithmetic. Hardware details of the entire 80x86 family are then examined, from pin and signal descriptions to memory and input/output system design. Advanced topics, including protected mode, WIN32 and Linux programming, and MMX technology are also introduced. An accompanying CD contains source and executable files for all example programs, datasheets in PDF format for easy reference, software and hardware lab experiments, and historical examples of programming in the DOS environment.

## CONTENTS

Microprocessor-Based Systems. An Introduction to the 80X86 Microprocessor Family. Addressing Modes, Flags, Data Transfer, and String Instructions. Arithmetic, Logical, Bit Manipulation, Program Transfer, and Processor Control Instructions. Interrupt Processing. An Introduction to Programming the 80X86. Advanced Programming Applications. Hardware Details of the 8088. Memory System Design. I/O System Design. Interfacing with the 80x86. Building a Working 8088 System. Hardware Details of the Pentium. Protected-Mode Operation. The Pentium II and Beyond.

## SUPPLEMENT

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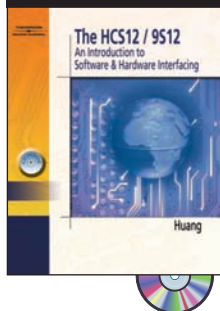
# THE HCS12/9S12: AN INTRODUCTION TO SOFTWARE & HARDWARE INTERFACING

Han-Way Huang

ISBN: 1-4018-9812-2

ISBN-13: 978-1-4018-9812-0

808 pp, 7-3/4" x 9-1/4", HC w/CD-ROM, 1-Color, ©2006



This book provides a total solution for learning and teaching embedded system design based on the Motorola HCS12/9S12 microcontroller. Readers will learn step-by-step how to program the HCS12 using both assembly and C languages, as well as how to use such development tools as asmIDE, MiniIDE, GNU C, and EGNU IDE. Supportive examples clearly illustrate all applications of the HCS12 peripheral functions, including parallel port, timer functions, PWM, UART port, SPI, I2C, CAN, on-chip flash and EEPROM programming, external memory expansion, and more. A back-of-book CD contains the source code for all examples in the book, several groups of reusable utility functions, and complimentary freeware development tools for improved learning.

## CONTENTS

Introduction to the HCS12 Microcontroller. HCS12 Assembly Programming. Members and Hardware and Software Development Tools. Advanced Assembly Programming. C Language Programming. Interrupts, Clock Generation, Resets, and Operation Modes. Parallel Ports. Timer Functions. Serial Communication Interface (SCI). Serial Peripheral Interface (SPI). Inter-Integrated Circuit (I2C) Interface. Analog-to-Digital Converter. Controller Area Network (CAN). Internal Memory Configuration and External Memory Expansion.

## SUPPLEMENT

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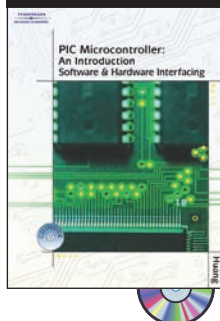
# PIC MICROCONTROLLER: AN INTRODUCTION SOFTWARE & HARDWARE INTERFACING

Han-Way Huang

ISBN: 1-4018-3967-3

ISBN-13: 978-1-4018-3967-3

608 pp, 8" x 9-1/4" HC w/CD-ROM, 1-Color, ©2005



This book presents a thorough introduction to the Microchip PIC® microcontroller family, including all of the PIC programming and interfacing for all the peripheral functions. A step-by-step approach to PIC assembly language programming is presented, with tutorials that demonstrate how to use such inherent development tools such as the Integrated Development Environment MPLAB, PIC18 C compiler, the ICD2 in-circuit debugger, and several demo boards. Background theory for each subject is given, followed by specific information on all the PIC microcontroller peripheral functions. Comprehensive coverage spans the topics of interrupts, timer functions, parallel I/O ports, various serial communications such as USART, SPI, I2C, and the CAN, A/D converters, and external memory expansion. A complimentary back-of-book CD features example programs and datasheets referenced in the book for easy experimenting.

## CONTENTS

Introduction to the PIC18 Microcontroller. PIC18 Assembly Language Programming. PIC18 Development Tools. Advanced Assembly Programming. Using the C Compiler. Interrupts, Resets, and Configuration. Parallel Ports. Timers and CCP Modules. Addressable Universal Synchronous Asynchronous Receiver Transceiver. Serial Peripheral Interface (SPI). Inter-Integrated Circuit (I2C) Interface. Analog to Digital Converter. Controller Area Network. External Memory Extension.

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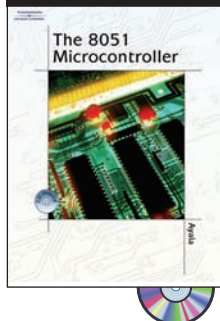
# THE 8051 MICROCONTROLLER, THIRD EDITION

Kenneth Ayala

ISBN: 1-4018-6158-X

ISBN-13: 978-1-4018-6158-2

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With an engaging writing style, this book teaches the current principles of computer architecture including simulation and programming, with new state-of-the-art integrated development software that is included in the back of the book.

## CONTENTS

Microprocessors and Microcontrollers. Numbering Systems and Binary Arithmetic. The 8051 Architecture. Basic Assembly Language Programming Concepts. Moving Data. Logical Operations. Arithmetic Operations. Jump and Call Instructions. An 8051 Microcontroller Design. Applications. Serial Data Communication. Appendices. Index.

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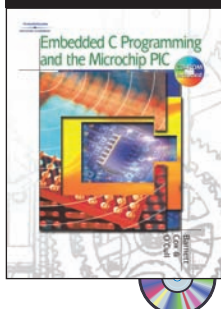
# EMBEDDED C PROGRAMMING AND THE MICROCHIP PIC

Richard Barnett, Sarah Cox, & Larry O'Cull

ISBN: 1-4018-3748-4

ISBN-13: 978-1-4018-3748-8

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## CONTENTS

Embedded C Language Tutorial. The Microchip® PIC® RISC Processors. Standard I/O and Pre-Processor Functions. The CCS-PICC C Compiler and IDE. Project Development. Library Functions Reference. Programming the PIC Microcontrollers. CCS 'ICD-S' Serial-In-System-Programmer/Debugger. Microchip ICD-II Serial-In-System-Programmer/Debugger. The 'FlashPIC-Dev' Development Board. ASCII Table; PIC16F877 Instruction Set Summary. PIC18F458 Instruction Set Summary. Answers To Selected Exercises.

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# MC68HC12

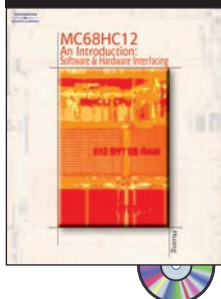
## AN INTRODUCTION: SOFTWARE & HARDWARE INTERFACING

Han-Way Huang

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ISBN-13: 978-0-7668-3448-4

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## CONTENTS

Introduction to the 68HC12 Microcontroller. 68HC12 Assembly Programming. 68HC12 Members and Hardware and Software Development Tools. Advanced Assembly Programming. C Language Programming. Interrupts, Resets and Operation Modes. Parallel Ports. Timer Functions. Serial Interface – SCI and SPI. Analog to Digital Converter. Development Support. Controller Area Network. On-Chip Memory and External Memory Expansion.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 0-7668-3449-2

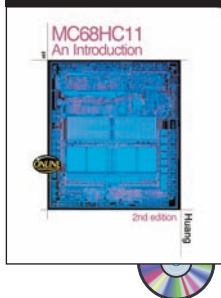
# MC68HC11 AN INTRODUCTION, SECOND EDITION

Han-Way Huang

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ISBN-13: 978-0-7668-1600-8

672 pp, 8-1/4" x 10", HC w/CD-ROM, 1-Color, ©2001

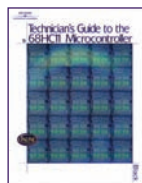


## CONTENTS

Introduction to Motorola 68HC11. 68HC11 Assembly Programming. Data Structures and Subroutine Calls. C Language Programming. Operation Modes and Memory Expansion. Interrupts and Resets. Parallel I/O Ports. 68HC11. Timer Functions. 68HC11 Serial Communication Interface. 68HC11 Serial Peripheral Interface. Analog-to-Digital Converter. Appendices. References. Index.

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## ALSO AVAILABLE

### TECHNICIAN'S GUIDE TO THE 68HC11 MICROCONTROLLER

Dan Black

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**ISBN: 0-7668-1715-6**

**Instructor's Guide** ISBN: 0-7668-1716-4



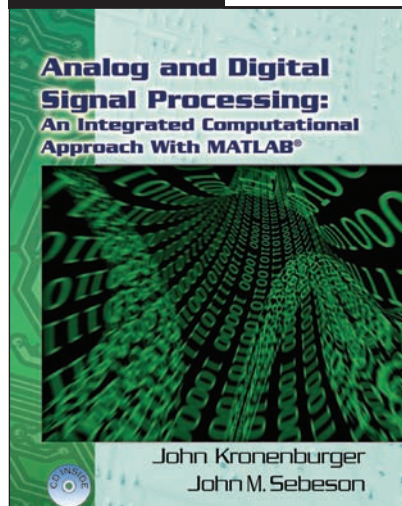
# ANALOG AND DIGITAL SIGNAL PROCESSING: AN INTEGRATED COMPUTATIONAL APPROACH WITH MATLAB®

John Kronenburger & John M. Sebeson

ISBN: 1-4180-4173-4

ISBN-13: 978-1-4180-4173-1

800 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2008



## ABOUT THE AUTHOR

**John Kronenburger** is the Dean of Technology Programs at DeVry University, and a member of the IEEE and IEEE Signal Processing Society. For 25 years, he was a research and development engineer and manager at Bell Telephone Laboratories, Rockwell Telecommunications, Motorola Communications and most recently Tellabs Inc. working primarily on the development of signal processing algorithms and implementations for both wireline and wireless communication applications. He received both his undergraduate degree and graduate degrees in electrical engineering technology from Northern Illinois University.

**John M. Sebeson** is an associate professor of Electronics Engineering Technology at DeVry University in Addison, Illinois and a member of the IEEE and IEEE Signal Processing Society. For 31 years, he was a research and development engineer and manager at Bell Telephone Laboratories, working primarily on the design of electronic switching systems. He received an undergraduate degree in physics from Michigan State University and graduate degrees in electrical engineering and materials science from Northwestern University.

This book provides a thorough yet mathematically accessible introduction to signal processing and presents readers with a strong foundation of fundamental DSP concepts and designs. Unlike traditional DSP books, a computational approach is used to help readers spend less time deciphering mathematical complexities and more time implementing practical DSP techniques. MATLAB®, an industry favorite scientific software package, is used to conduct the computations of the concepts discussed. With coverage of introductory concepts as well as advanced topics, this is an ideal resource for readers of all levels who are seeking a comprehensive understanding of relevant DSP concepts for today's industry professionals.

## KEY FEATURES

- detailed examples and case studies of principles and applications illustrate important techniques
- end-of-chapter exercises allow readers to further explore and apply key topics
- computational approach to even advanced topics makes the material accessible to all readers, regardless of experience level
- integration of continuous-time and discrete-time signal theory clarifies the connection between analog and digital signal processing
- MATLAB® code is placed sequentially throughout the book, illustrating how DSP algorithms actually work in practice
- Back-of-book CD includes MATLAB® code, MATLAB® commands, and custom M-files

## CONTENTS

In Introduction to Signal Processing. Describing Signals. Continuous-Time and Discrete-Time Systems. The Frequency Domain of Signals and Systems. Finite Impulse Response Filter Design. Infinite Impulse Response Filter Design. Oversampling and Multirate Digital Signal Processing Systems. Correlation and Autocorrelation of Signals. Adaptive Filters. Basic Digital Signal Processing of Images. Signal Processing with Wavelets. Case Studies in Digital Signal Processing.

## SUPPLEMENT



**e-resource** ISBN: 1-4180-4174-2

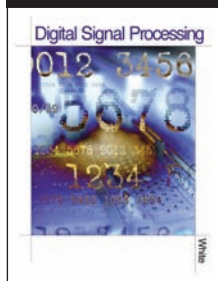
# DIGITAL SIGNAL PROCESSING

Steve White

ISBN: 0-7668-1531-5

ISBN-13: 978-0-7668-1531-5

320 pp, 8-1/2" x 11", HC, 1-Color, ©2000



Written for a one-semester junior- or senior-level college course, this text introduces the student to the concepts, equations, and terminology of DSP, as well as providing the understanding and tools to analyze and design digital filters.

## CONTENTS

Introduction to Digital Filtering and Digital Signal Processing. The Effects of Signal Sampling. Digital Filter Specifications. Z-transforms. The X-transform of the DSP equation. Frequency Response of Digital Filters and DSP Systems. Digital Filter and DSP Stability. The Filter Coefficient Precision Problem. IIR Filter Design. FIR Filter Design. Windows for FIR Filters. Practical Digital Filter Considerations. Digital Integration. Answers.

## SUPPLEMENT

**Instructor's Guide** ISBN: 0-7668-1532-3

# ANALOG SIGNAL PROCESSING WITH LAPLACE TRANSFORMS AND ACTIVE FILTER DESIGN, SECOND EDITION

Don Meador

ISBN: 0-7668-2818-2

ISBN-13: 978-0-7668-2818-6

416 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2002



This book, written for an introductory course on analog signal processing, offers detailed examples and step-by-step instructions. In an effort to use current computing technologies, sections on how to work problems using MATLAB® and the TI-89 hand calculator are given. Other topics covered include: basic equations for complex analog waveforms, LaPlace transforms, LaPlace circuit analysis, transfer functions for analog circuits, pole-zero plots, frequency response of analog circuits, filter specifications, frequency response characteristics of op-amps, and the design of Butterworth, Chebyshev, and elliptic active filters.

## CONTENTS

Introduction. Analog Signal Analysis. LaPlace Transforms. Circuit Analysis Using LaPlace Transforms. Sinusoidal Steady State. Introduction to Filters. Normalized Low-Pass Filter. Practical Filters from the Generic Loss Functions.

## SUPPLEMENT

**Instructor's Guide** ISBN: 0-7668-2819-0



## ALSO AVAILABLE DSP FILTERS

John Lane, et. al.

344 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2001

ISBN: 0-7906-1204-6

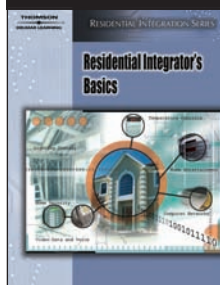
# RESIDENTIAL INTEGRATOR'S BASICS

Sam DiPaola

ISBN: 1-4180-1407-9

ISBN-13: 978-1-4180-1407-0

464 pp, 8" x 10", SC, 1-Color, ©2007



The residential integration industry is enjoying unprecedented growth in the installation of cutting edge technologies in today's homes. This book provides readers with an all-inclusive source of information on computer networks, communications, home automation, cabling, wiring, and more. It creatively blends the theory of different applications such as voice, data, video, security, and home automation with the basics of residential construction into one comprehensive guide. Coverage is aimed at providing readers with an understanding of how separate systems can be linked into a unified functional network that is accessible from multiple locations.

## CONTENTS

Introduction. Networking Fundamentals. Wireless Communications. The Technology of Communications. Voice and Data Applications. Entertainment Applications. Home Automation. The Construction Process. Boxes. Residential Electrical Cabling Installation. Cabling Standard. Optical Fiber and Cable. Article 725 of the NEC; Classification of Circuits. Telephone Wiring. Video System Installation. Network Cabling. Cabling for Wireless Networks. Testing Voice, Data, and Video Wiring. Communication Infrastructure Design. Television. Smoke, Heat, and Carbon Monoxide Alarms, and Security Systems. Home of the Future.

## SUPPLEMENT

**Faculty Guide** ISBN: 1-4180-1408-7

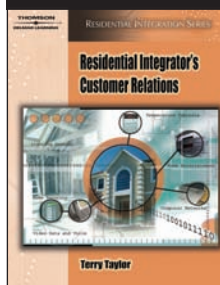
# RESIDENTIAL INTEGRATOR'S CUSTOMER RELATIONS

Terry Taylor

ISBN: 1-4180-1413-3

ISBN-13: 978-1-4180-1413-1

144 pp, 8" x 10", SC, 1-Color, ©2007



Residential integrators are often tasked with the responsibility of representing the company's mission, structure, attitude, and professionalism. This book covers the specific customer relationship skills that residential integrators need to be successful in the industry. In-depth coverage begins with a definition of excellent service as a critical component for personal and professional success. Effective communication is then defined for face-to-face, telephone, email, and written interactions. Aspects of the client-employee relationship are also covered in detail, followed by the importance of client satisfaction to ensure that the relationship remains strong after an installation is complete.

## CONTENTS

Introduction to Excellent Service. Customer Connection Strategies. Effective Communication for Excellent Service to Customers. Handling Difficult Customer Situations. Training the Customer. Ensuring Customer Satisfaction.

## SUPPLEMENT

**Faculty Guide** ISBN: 1-4180-1414-1

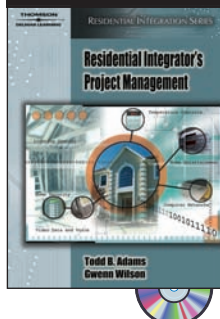
# RESIDENTIAL INTEGRATOR'S PROJECT MANAGEMENT

Todd B. Adams & Gwenn Wilson

ISBN: 1-4180-1411-7

ISBN-13: 978-1-4180-1411-7

416 pp, 8" x 10", SC w/CD-ROM, 1-Color, ©2007



This complete guide to the management of residential integration projects breaks the planning down to eight basic steps. Comprehensive coverage features detailed job descriptions for each member of the team, from project manager and lead installer to basic installer and technician. Readers will develop a solid foundation for understanding project management in the context of the residential integration industry. A back-of-book CD contains project management tools, forms, and templates that teach the value of using templates to prepare project proposals quickly.

## CONTENTS

Introduction to Project Management. The Residential Integration Project Life Cycle. The Project Team. Understanding Cost Accounting. Information Gathering. The Project Scope Statement. The Work Breakdown Structure. Cost Estimating. The Scope Management Plan. Time Management Planning. Risk Management Planning. Procurement Management Planning. Project Communications Planning. Quality Management Planning. Cost Management Planning. Project Execution. Monitoring and Controlling. Closing Procedures. Appendices.

## SUPPLEMENT

**Faculty Guide** ISBN: 1-4180-1412-5

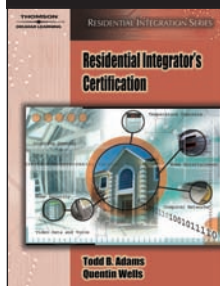
# RESIDENTIAL INTEGRATOR'S CERTIFICATION

Todd B. Adams & Quentin Wells

ISBN: 1-4180-1409-5

ISBN-13: 978-1-4180-1409-4

624 pp, 8" x 10", SC, 1-Color, ©2007



*Residential Integrator's Certification* is a practical guide to home network design, hardware, installation, and configuration for all the major wired and wireless systems. Whether working for one of the specialized firms that install and service only one or two home technologies (cable and satellite television hookups, for example), or for a broad-based systems integrator that supplies total network solutions, the knowledge in this text, confirmed by the CompTIA HTI+ Certification or CEDIA certification, will assure multiple career opportunities in an expanding technological field. This book maps completely to both exams for CompTIA HTI+ certification: Residential Systems (HTO 101) and Systems Infrastructure and Integration (HTO 102), as well as the CEDIA Designer Classification System exam.

## CONTENTS

Introduction to HTI. Home Technology Network Basics. Home Network Design and Configuration. Installing Central Components and Low-Voltage Wiring. High-Voltage Wiring. Video and Audio Fundamentals. Audio and Video Installation and Setup. Security and Access System Fundamentals. Security System Installation and Setup. Telecommunications Fundamentals and Installation. Home Lighting Control. Heating, Ventilation, and Air-Conditioning Management. Waste System Management. Miscellaneous Automated Control Systems. Information Gathering. Understanding the Project Scope Statement. Cost Estimating. The Project Team. Project Documentation. Fundamentals of Electricity. Acoustics. Appendices.

## SUPPLEMENT

**Faculty Guide** ISBN: 1-4180-1410-9

# RESIDENTIAL INTEGRATOR'S GUIDE TO DIGITAL HOME TECHNOLOGY INTEGRATION

Quentin Wells

ISBN: 1-4354-0062-3

ISBN-13: 978-1-4354-0062-7

672 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2009



The most complete, up-to-date resource for home technology integration and home automation available, *Guide to Digital Home Technology Integration* explores how the latest high-tech systems converge to create integrated, whole-home unified systems. With a focus on installation, troubleshooting, and maintenance, coverage includes LANs, internet connectivity, video and audio systems, telephone systems, security systems, lighting controls, and more. The book's straightforward writing style and comprehensive approach make this a valuable resource.

## CONTENTS

Introduction to HTI. Home Technology Networks - The Basics. Home Network Design and Configuration. Home Network Central Components and Low Voltage Wiring. High Voltage Wiring. Video and Audio Fundamentals. Audio/Video Installation and Setup. Home Security and Access System Fundamentals. Security System Installation and Setup. Telecommunications Fundamentals and Installation. Home Automation and Control Systems - Lighting; Heating, Ventilation and Air Conditioning (HVAC); Water; and Automated Devices. Power Supply and Conditioning. Troubleshooting Integrated Digital Home Technology Systems.

## SUPPLEMENT

**e.resource** ISBN 1-4354-0068-2

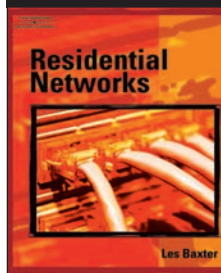
# RESIDENTIAL NETWORKS

Les Baxter

ISBN: 1-4018-6267-5

ISBN-13: 978-1-4018-6267-1

416 pp, 8-1/2" x 11", SC, 1-Color, ©2006



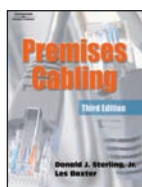
*Residential Networks* presents a "soup to nuts" examination of home networking, from physical layer transmission issues to different types of networks and present-day applications such as voice telephony, data networking, entertainment networks, and home automation. Expansive cabling coverage addresses such important areas as planning and design, installation, and testing, while networking technologies such as Ethernet, Wi-Fi, and FireWire are also surveyed.

## CONTENTS

Part I: Technology. Introduction. Copper Cabling Technology. Fiber Optic Technology. Cabling Standards. Part II: Networks. Network Fundamentals. IEEE 802.3 (Ethernet) Networks. IEEE 1394 (FireWire) Networks. Wireless Networks. Access Technologies. Part III: Applications. Voice and Data Applications. Entertainment Applications. Home Automation. Part IV: Infrastructure. Communications Infrastructure Design. Cabling Installation. Multi-Dwelling Units. Part V: Future. Future Trend. Annexes Annex A: The Decibel (dB) Annex B: Metric Prefixes Annex C: Acronyms Annex D: Glossary Annex E: References.

## SUPPLEMENT

**Instructor's Guide** ISBN: 1-4018-6268-3



## ALSO AVAILABLE PREMISES CABLING, THIRD EDITION

Donald J. Sterling, Jr.,  
Les Baxter, et. al.

320pp, 7-3/8" x 9, SC, 1-Color, ©2006

**ISBN: 1-4018-9820-3**

**Instructor's Manual**

**ISBN: 1-4018-9822-X**



## ALSO AVAILABLE DATA, VOICE, AND VIDEO CABLING, THIRD EDITION

Jim Hayes & Paul Rosenberg

352 pp, 7-3/8" X 9-1/4", SC, 1-Color, 2009

**ISBN: 1-4283-3472-6**

**Instructor's CD** ISBN: 1-4283-3474-2

**Lab Manual** ISBN: 1-4283-3473-4



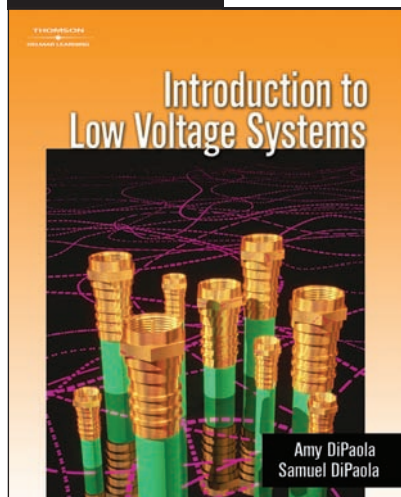
# INTRODUCTION TO LOW VOLTAGE SYSTEMS

Amy DiPaola & Samuel DiPaola

ISBN: 1-4018-5656-X

ISBN-13: 978-1-4018-5656-4

448 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2006



## ABOUT THE AUTHORS

**Amy DiPaola** holds a Power Limited Technician license with the Minnesota Board of Electricity and is a registered instructor with the state of Minnesota and the Minnesota Board of Electricity. She was an electronics technician with the FBI from 1996-2000 and was a project manager for the installation of security and communication systems at various sites around the country.

**Sam DiPaola** holds a Power Limited Technician license with the Minnesota Board of Electricity and is a registered instructor with the state of Minnesota and the Minnesota Board of Electricity. He is an associate of the North Central Electrical League through Dunwoody College, and holds a General Radiotelephone Operator License with the Federal Communications Commission. DiPaola worked for ten years as an audio technician and an audio systems installer, and later began working in manufacturing with Rosemount Engineering as an electronics design technician. For the past 20 years, he has been involved in the design and installation of low voltage systems, and automated process controls.

This all-inclusive guide combines the basic elements of various low voltage systems into a single source, so that readers gain a concrete understanding of the operation of individual systems, as well as how they integrate. Information pertaining to devices, connection and cabling, and the NEC® are all thoroughly examined, providing users with an understanding of the language and terminology of the industry. Easy-to-read content that is written especially for industry novices employs the use of layman's terms so that difficult concepts will be swiftly grasped.

## KEY FEATURES

- issues such as voltage drop, characteristic impedance, attenuation, and insulation are discussed in depth, promoting a knowledge of the major issues involved in specifying the right type of cable for a job
- covers the basics of computer networking including the levels of communication and necessary protocols
- coverage assumes a fundamental understanding of the basic laws, components, and circuits of AC/DC electricity

## CONTENTS

Introduction to the NEC. Electrical Cable. Article 640 Audio Signal Processing. Amplification and Reproduction Equipment. Speaker Placement and Equipment Racks. Article 645 Information Technology Equipment. Article 700 Emergency Systems. Article 725 Class 1, Class 2 and Class 3 Remote-Control. Signaling, and Power-Limited Circuits. Article 760 Fire Alarm Systems. Article 770 Optical Fiber Cables and Raceways. Article 800 Communications Circuits/Alarm System. Article 810 Radio and Television Equipment. Article 820 Community Antenna Television and Radio Distribution Systems (CATV) and Closed Circuit Television (CCTV). Article 830 Network-Powered Broadband Communications Systems.

## SUPPLEMENT

 **e.resource** ISBN: 1-4018-5657-8

# BIOMEDICAL INSTRUMENTATION SYSTEMS

Shakti Chatterjee

ISBN: 1-4180-1866-X

ISBN-13: 978-1-4180-1866-5

576 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2009



Learn to maintain and repair high tech hospital equipment with this practical, straightforward, and thorough new book. *Biomedical Instrumentation Systems* uses practical medical scenarios to illustrate effective equipment maintenance and repair procedures. Additional coverage includes basic electronics principles, as well as medical devices and safety standards. Designed to provide readers with the most current industry information, the latest medical websites are referenced, and today's most popular software simulation packages like MATLAB and MultiSIM are utilized.

## KEY FEATURES

- detailed artwork and photographs illustrate procedures and concepts
- objectives at the beginning of each chapter help readers to focus on key concepts
- numerous examples provide the opportunity to apply information and improve critical thinking skills
- end-of-chapter summaries, quizzes, case studies, and glossary terms reinforce important topics

## CONTENTS

Introduction to Biomedical Instrumentation Systems. Anatomy and Physiology. Bio-Signal and Noise. Biomedical Electronics: Analog. Biomedical Electronics: Digital. Biomedical Electrodes, Sensors and Transducers. Instrumentation in Diagnostic Cardiology. Defibrillators and Pacemakers. Instrumentation in Blood Circulation. Instrumentation in Extracorporeal Circulation and Assist Devices. Instrumentation in Respiration. Electroencephalography & EMG Instrumentation. Artifacts and Noise in Medical Instrumentation. Instrumentation in Medical Ultrasound. Instrumentation in Medical Imaging. Fiber Optics and Lasers in Bioinstrumentation. Instruments in ICU / CCU. Instrumentation in the Operating Room. Biomedical Laboratory Instrumentation. Medical Safety. Regulation & Standards. Preventative Maintenance. Computers and Telemedicine. New Technologies in Medical Instrumentation.

## SUPPLEMENT

 **e.resource** ISBN: 1-4180-1867-8

# MEDICAL IMAGING SYSTEMS: PRINCIPLES, ANALYSIS, AND APPLICATIONS, INTERNATIONAL EDITION

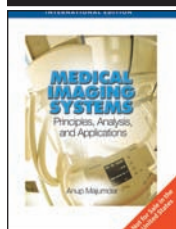
Anup Majumder

ISBN: 1-4018-6267-5

ISBN-13: 978-1-4390-5763-6

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**NEW!**



# SUCCESSING IN ENGINEERING TECHNOLOGY: 10 ESSENTIAL STRATEGIES

Dr. David L. Goetsch, Vice-President—Okaloosa-Walton College

Engineering Technology is a broad and varied field that offers an almost infinite list of opportunities for rewarding, satisfying careers. I completed an Engineering Technology degree way back in 1969. Now, almost forty years later, I have had a deeply satisfying and rewarding career that has included a long list of increasingly higher positions in such fields as CAD/CAM, occupational safety, quality management, consultant to technology firms, college professor, and college administrator.

Over the years, I have learned much about what it takes to succeed in the field of Engineering Technology. But to learn more, I undertook a three-year study in which I asked successful professionals in the field to answer just one question: "What does it take to succeed in Engineering Technology in today's hyper-competitive global environment besides the technical knowledge and skills you learned in school?"

The responses of study subjects to this question were as varied as the field of Engineering Technology itself. However, there were ten success strategies that stood out from the hundreds received. These ten essential success strategies are: 1) Build your career on a foundation of integrity; 2) Understand the concept of helping yourself succeed by helping your employer succeed; 3) Apply self-discipline and good time management; 4) Be a good team player, team builder, and team leader; 5) Be an effective communicator; 6) Be a critical thinker; 7) Learn to work well in a diverse environment; 8) Adopt a positive "can-do" attitude; 9) Learn how to effectively resolve conflict among people; and 10) Learn to persevere when the job becomes difficult and others want to give up.

There is not sufficient space in an article of this size to summarize all ten success strategies. Consequently, only the first three on the list are summarized herein. However, it is important to remember that all ten are equally important. Success in Engineering Technology requires the consistent application of all ten strategies.

## **BUILD YOUR CAREER ON A FOUNDATION OF INTEGRITY**

In the long run, no characteristic is more important for people who want to build a successful career in Engineering Technology than integrity. Notice that I said, "In the long run..." Over the span of your career you will be confronted by situations in which unethical behavior will appear to be in your best interests, at least in the short run; whether from the perspective of personal gain or to eliminate pressure or threats from others. However, in the long run, integrity typically wins out over any short-

term gains that might appear to be achieved by unethical behavior.

When faced with the temptation to make an unethical decision, apply the front-page test. Ask yourself this question: "If everything about my decision were to be printed on the front page of the newspaper tomorrow morning, would I be proud of my decision or embarrassed by it?" Although doing the right thing might sometimes hurt in the short run, it will eventually pay off in the long run. To have a successful career in Engineering Technology, practice doing the right thing.

## **HELP YOURSELF BY HELPING YOUR ORGANIZATION**

The most successful people in the field of Engineering Technology are those who understand that the best way to help themselves succeed is to help their employer succeed. This concept of mutual-benefit is the foundation of the employer/employee relationship. Every organization that competes in the global arena needs personnel who are consistent peak performers and who will do what is necessary to continually improve their individual performance as well as that of their team and the overall organization.

## **APPLY SELF-DISCIPLINE AND GOOD TIME MANAGEMENT**

Self-discipline is a skill you can develop with practice that allows you to consciously control your choices, decisions, and actions. The reason that self-discipline is so important to your success in Engineering Technology is that being a consistent peak performer and positive role model for others requires a lot of effort, and there will be times when you simply will not feel like putting forth the necessary effort. Self-discipline is the act of consciously willing yourself to do what needs to be done even when you do not feel like it.

Another reason self-discipline is so important is that it promotes good time management. In today's hyper-competitive global environment, deadlines are an every present fact of life. There will be many times when you just do not seem to have enough time to do what needs to be done. Consequently, being a good time manager is an essential success skill and an extension of self-discipline.

Integrity, helping your employer consistently outperform the competition, disciplining your self to be a peak performer even on those days when you do not feel up to it, and wisely managing your time are critical strategies for people who want to succeed in the field of Engineering Technology. Applying these three strategies, as well as the other seven listed earlier, will go a long way toward ensuring a successful career in Engineering Technology.

To read the full article, please visit [www.delmar.cengage.com](http://www.delmar.cengage.com) and click "Electronics"

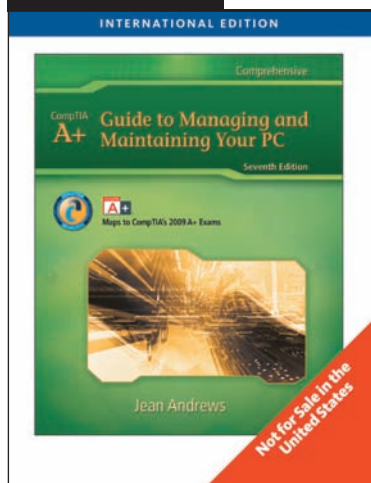
# A+ GUIDE TO MANAGING & MAINTAINING YOUR PC, INTERNATIONAL EDITION, SEVENTH EDITION

Jean Andrews

ISBN: 1-4354-8704-4

ISBN-13: 978-1-4354-8704-8

1,344 pp, 8-1/2" x 10-7/8", PB, 4-Color, ©2011



## ABOUT THE AUTHOR

**Jean Andrews** has more than 30 years of experience in the computer industry, including more than 13 years in the college classroom. She has worked in a variety of businesses and corporations designing, writing, and supporting application software; managing a PC repair help desk; and troubleshooting wide area networks. She has written numerous books on software, hardware, and the Internet.

Written by best-selling PC repair author and educator Jean Andrews, the seventh edition of *A+ Guide to Managing and Maintaining Your PC, International Edition* maps fully to CompTIA's 2009 A+ Exam objectives. This full-color guide is the most complete, step-by-step book available for learning the fundamentals of supporting and troubleshooting computer hardware and software. At the same time, it prepares readers to successfully pass the A+ 220-701 and 220-702 exams. The new edition is formatted to support any teaching or learning style and course format, featuring an essentials-to-practical organization within each chapter and inclusion of tabs distinguishing exam content. Further content and live demonstrations with Jean Andrews are available on the accompanying CD, making this new edition a total solution for PC repair.

## KEY FEATURES

- Within each chapter, content is presented in an essentials to advanced order, providing greater ease-of-use with the new A+ exam structure while maintaining the academic focus.
- A+ Exam tabs on each page make it easy to distinguish between content covering A+ 220-701 Essentials and A+ 220-702 Practical Application exams.
- More emphasis on security with two chapters devoted to Security Basics and Security Applied.
- Chapters on Windows have been reorganized by function and by task, rather than by operating system, resulting in a more streamlined presentation.
- Updated to include Windows Vista and to provide stronger emphasis on troubleshooting and security.

## CONTENTS

1. Introducing Hardware. 2. Introducing Operating Systems. 3. Working with People in a Technical World. 4. Form Factors and Power Supplies. 5. All about Motherboards. 6. Supporting Processors. 7. Upgrading Memory. 8. Supporting Hard Drives. 9. Installing and Supporting I/O devices. 10. Multimedia Devices and Mass Storage. 11. PC Maintenance and Troubleshooting Strategies. 12. Installing Windows. 13. Maintaining Windows. 14. Optimizing Windows. 15. Tools for Solving Windows Problems. 16. Fixing Windows Problems. 17. Networking Essentials. 18. Networking Practices. 19. Security Essentials. 20. Security Practices. 21. Supporting Notebooks. 22. Supporting Printers. Appendices: A. CompTIA A+ Acronyms. B. Keystroke Shortcuts in Windows. CD Resource Contents: Video Clips. CertBlaster Exam Preparation Software. PC Repair FAQs. eGlossary. Troubleshooting Flowcharts. Sample Reports. CompTIA A+ 2009 Mapping Grids. Appendices: ASCII Character and Set and Ansi.sys. Behind the Scenes with DEBUG. Calculating Drive Capacity on Older Drives. Electricity and Multimeters. FAT Details. How an OS Uses System Resources. Installations Using Legacy BIOS. Introducing Linux. Introducing the Mac OS. Supporting SCSI and Legacy Devices. Supporting Windows 9X/ME. The Hexadecimal Number System and Memory Addressing. Windows 9x Me Commands and Startup Disk.

## SUPPLEMENTS

**Lab Manual** ISBN: 1-4354-8740-0

**Instructor's Resource** ISBN: 1-4354-8739-7

# A+ GUIDE TO HARDWARE: MANAGING, MAINTAINING, AND TROUBLESHOOTING, INTERNATIONAL EDITION, FIFTH EDITION

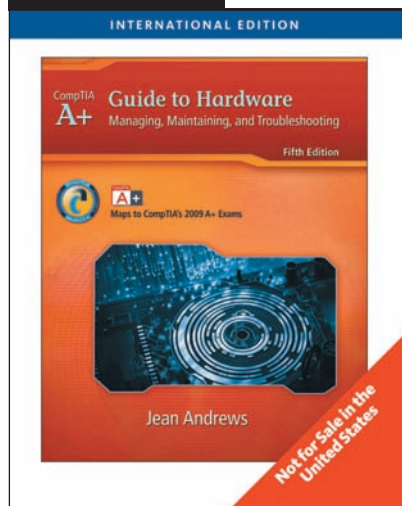
Jean Andrews

**NEW!**

ISBN: 1-4354-8703-6

ISBN-13: 978-1-4354-8703-1

704 pp, 8-1/2" x 10-7/8", PB, 4-Color, 2011



Written by best-selling PC repair author and educator Jean Andrews, the fifth edition of A+ Guide to Hardware: Managing, Maintaining, and Troubleshooting, International Edition maps fully to CompTIA's 2009 A+ Exam objectives. This full-color guide is the most complete, step-by-step book available for learning the fundamentals of supporting and troubleshooting computer hardware. At the same time, it prepares readers to successfully pass the A+ 220-701 and 220-702 exams. The new edition is formatted to support any teaching or learning style and course format, featuring an essentials-to-practical organization within each chapter and inclusion of tabs distinguishing exam content. Further content and live demonstrations with Jean Andrews are available on the accompanying CD, making this new edition a total solution for hardware maintenance and repair.

## KEY FEATURES

- Within each chapter, content is presented in an essentials to advanced order, providing greater ease-of-use with the new A+ exam structure while maintaining the academic focus.
- A+ Exam tabs on each page make it easy to distinguish between content covering A+ 220-701 Essentials and A+ 220-702 Practical Application exams.
- New chapter on PC Maintenance and Troubleshooting Strategies.
- A+ certification icons and A+ Tips highlight all of the material related to the exams, so students can pay close attention to pertinent information.

## CONTENTS

1. Introducing Hardware. 2. Form Factors and Power Supplies. 3. All about Motherboards. 4. Supporting Processors. 5. Upgrading Memory. 6. Supporting Hard Drives. 7. Installing and Supporting I/O devices. 8. Multimedia Devices and Mass Storage. 9. PC Maintenance and Troubleshooting Strategies. 10. Networking Essentials. 11. Supporting Notebooks. 12. Supporting Printers. Appendices. A.CompTIA A+ Acronyms. B. Keystroke Shortcuts in Windows. CD Resource Contents: Video Clips. CertBlaster Exam Preparation Software. PC Repair FAQs. eGlossary. Troubleshooting Flowcharts. Sample Reports. CompTIA A+ 2009 Mapping Grids. Appendices: ASCII Character a nd Set and Ansi.sys. Behind the Scenes with DEBUG. Calculating Drive Capacity on Older Drives. Electricity and Multimeters. FAT Details.How an OS Uses System Resources. Installations Using Legacy BIOS. Introducing Linux.Introducing the Mac OS. Supporting SCSI and Legacy Devices. Supporting Windows 9X/ME. The Hexadecimal Number System and Memory Addressing. Windows 9x Me Commands and Startup Disk.

## SUPPLEMENTS

**Lab Manual** ISBN: 1-4354-8736-2

**Instructor's Resource CD ROM** ISBN: 1-4354-8719-2



# A+ GUIDE TO SOFTWARE: MANAGING, MAINTAINING, AND TROUBLESHOOTING, INTERNATIONAL EDITION, FIFTH EDITION

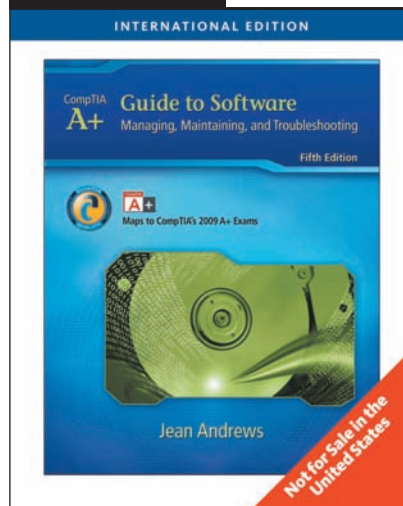
Jean Andrews

**NEW!**

ISBN: 1-4354-8702-8

ISBN-13: 978-1-4354-8702-4

704 pp, 8-1/2" x 10-7/8", PB, 4-Color, ©2010



Written by best-selling PC repair author and educator Jean Andrews, the fifth edition of *A+ GUIDE TO SOFTWARE: MANAGING, MAINTAINING, AND TROUBLESHOOTING, International Edition* maps fully to CompTIA's 2009 A+ Exam objectives. This full-color guide is the most complete, step-by-step book available for learning the fundamentals of supporting and troubleshooting computer hardware and software. At the same time, it prepares readers to successfully pass the software portions of the A+ 220-701 and 220-702 exams. The new edition is formatted to support any teaching or learning style and course format, featuring an essentials-to-practical organization within each chapter and inclusion of tabs distinguishing exam content. Further content and live demonstrations with Jean Andrews are available on the accompanying CD, making this new edition a total solution for PC repair.

## KEY FEATURES

- Within each chapter, content is presented in an essentials to advanced order, providing greater ease-of-use with the new A+ exam structure while maintaining the academic focus.
- A+ Exam tabs on each page make it easy to distinguish between content covering A+ 220-701 Essentials and A+ 220-702 Practical Application exams.
- More emphasis on security with two chapters devoted to Security Essentials and Security Practices.
- Chapters on Windows have been reorganized by function and by task, rather than by operating system, resulting in a more streamlined presentation.
- Includes extensive pedagogical features to help reinforce material, such as Applying Concepts, Key Terms, Reviewing the Basics, Thinking Critically, Hands-On Projects, and Real Problems, Real Solutions.

## CONTENTS

1. Introducing Operating Systems. 2. Working with People in a Technical World. 3. Installing Windows 2000/XP/Vista. 4. Maintaining Windows. 5. Optimizing Windows. 6. Tools for Solving Windows Problems. 7. Fixing Windows Problems. 8. Networking Essentials. 9. Networking Practices. 10. Security Essentials. 11. Security Practices. Appendices. A.CompTIA A+ Acronyms. B. Keystroke Shortcuts in Windows. CD Resource Contents:Video Clips. CertBlaster Exam Preparation Software. PC Repair FAQs.eGlossary. Troubleshooting Flowcharts. Sample Reports.CompTIA A+ 2009 Mapping Grids. Appendices: ASCII Character and Set and Ansi.sys. Behind the Scenes with DEBUG. Calculating Drive Capacity on Older Drives. Electricity and Multimeters. FAT Details. How an OS Uses System Resources. Installations Using Legacy BIOS. Introducing Linux. Introducing the Mac OS. Supporting SCSI and Legacy Devices.Supporting Windows 9X/ME. The Hexadecimal Number System and Memory Addressing. Windows 9x Me Commands and Startup Disk.

## SUPPLEMENTS

**Lab Manual** ISBN: , 1-4354-8735-4

**Instructor's Resource** ISBN: 1-4354-8720-6

# PC TROUBLESHOOTING POCKET GUIDE, SIXTH EDITION

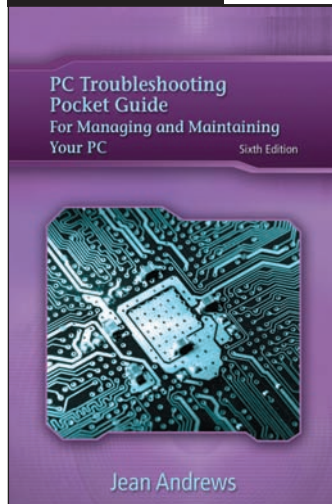
Jean Andrews

**NEW!**

ISBN: 1-4354-8734-6

ISBN-13: 978-1-4354-8734-5

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When working on a PC, you'll want to keep this handy PC Troubleshooting Pocket Guide by your side. Jean Andrews provides clear, complete explanations to make technical topics easy to understand. The PC Troubleshooting Pocket Guide will help individuals diagnose computer problems with ease and speed. This portable, compact volume provides essential diagnostic and troubleshooting information, and is an essential tool for anyone who needs to find PC information quickly and efficiently.

## KEY FEATURES

- The "Troubleshooting Roadmap" provides a wealth of information in a visual, quick-reference format.
- Search by system or symptom to solve computer problems fast.
- Covers new CPU technologies and Windows Vista and XP, along with troubleshooting hardware and networks.
- Refers back to A+ Guide to Managing and Maintaining Your PC, 7e, A+ Guide to Hardware, 5e, and A+ Guide to Software, 5e for additional information for a truly integrated learning experience.

# WEB-BASED LABS PRINTED ACCESS CARD FOR ANDREWS' A+ GUIDE TO MANAGING & MAINTAINING YOUR PC, SECOND EDITION

Lab Mentors

**NEW!**

ISBN: 1-4354-8728-1

ISBN-13: 978-1-4354-8728-4

Software, ©2011

Web-Based Labs provides a live, virtual lab environment to practice hands-on hardware- and software-related skills. The labs map directly to A+ Guide to Managing and Maintaining Your PC, Seventh Edition. This online tool allows learners to log in to a live environment to perform the hands-on exercises and labs from the chapters of A+ Guide to Managing and Maintaining Your PC. Results can be sent to instructors for easy completion tracking.

**NEW!**

# DTIMETRICS FOR A+ GUIDE TO MANAGING AND MAINTAINING YOUR PC DTIMETRICS FOR A+ GUIDE TO HARDWARE DTIMETRICS FOR A+ GUIDE TO SOFTWARE

dti Publishing

ISBN: 1-4354-8731-1	ISBN: 1-4354-8730-3	ISBN: 1-4354-8729-X	Software, ©2011
ISBN-13: 978-1-4354-8731-4	ISBN-13: 978-1-4354-8730-7	ISBN-13: 978-1-4354-8729-1	<p>dtiMetrics is the ultimate assessment tool, providing hundreds of questions which map to the A+ certification exam objectives as well as to the chapters and pages of A+ Guide to Managing &amp; Maintaining Your PC, Seventh Edition, A+ Guide to Hardware, Fifth Edition and A+ Guide to Software, Fifth Edition. It includes a quiz for each chapter in the book, in addition to a mid-term and final exam that can be assigned by instructors. dtiMetrics helps learners ensure they are learning and retaining all relevant content, while providing class tracking tools for instructors. Remediation-based reporting for instructors and students allows evaluation of student or class achievement per objective. Bundled with the book, dtiMetrics is a powerful resource for both instructors and learners.</p>
<b>GUIDE TO MANAGING AND MAINTAINING YOUR PC</b>	<b>GUIDE TO HARDWARE</b>	<b>GUIDE TO SOFTWARE</b>	

## A+ ESSENTIALS COURSENOTES, EXAM #220-702 FOR ANDREWS' A+ GUIDE TO MANAGING & MAINTAINING YOUR PC, SECOND EDITION

**NEW!**

Course Technology

ISBN: 1-4354-8725-7	ISBN-13: 978-1-4354-8725-3	©2010
<p>CourseNotes is a laminated six-panel quick reference card that reinforces the most important topics needed to know to prepare for CompTIA's A+ Essentials 220-701 exam in a visual and user-friendly format. CourseNotes will serve as a great reference tool throughout the course as well as after the learner completes the course.</p>		

# LABCONNECTION FOR A+

dti Publishing

**NEW!**

ISBN: 1-111-12520-1

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ISBN-13: 978-1-111-12520-2

**GUIDE TO MANAGING  
AND MAINTAINING  
YOUR PC**

ISBN: 1-111-12826-X

ISBN-13: 978-1-111-12826-5

**GUIDE TO HARDWARE**

ISBN: 1-111-12522-8

ISBN-13: 978-1-111-12522-6

**GUIDE TO SOFTWARE**

With powerful computer-based exercises, simulations and in-depth remediation capabilities, LabConnection™ provides a uniquely integrated supplement to hands-on A+ PC repair courses, and can be used both as a virtual lab and home learning tool. LabConnection supports Cengage Learning's A+ Guide to Managing and Maintaining Your PC textbook, A+ Guide to Hardware textbook, A+ Guide to Software textbook and CompTIA's A+ certification exams, and offers remediation towards both. LabConnection, by dti Publishing, is a system that enables exercises and labs to be embedded within the curriculum and instruction. The system is designed for instructor led learning but can also be used within any self-paced learning environment. The standalone DVD version allows use of the simulation product without the necessity of online access. LabConnection is also available as online individual access with automatic grading and record maintenance.

## KEY FEATURES

- **Enhanced Comprehension:** All completed labs reflect a complete understanding of the tasks and concepts as they directly relate to the referenced curriculum and the Cengage Learning textbook. Through LabConnection's guidance in the virtual lab environment, the student develops skills that are accurate and consistently effective.
- **Exercises:** Includes dozens of exercises that assess and prepare the learner for the virtual labs, establishing and solidifying the skills and knowledge required to complete the lab.
- **Virtual Labs:** Labs consist of end-to-end procedures performed in a rich simulated environment where the learner can practice the skills required of professionals and on standardized exams.
- **Guided Learning:** LabConnection allows learners to make mistakes but alerts them to errors made before they can move on to the next step, sometimes offering demonstration as well as media rich answers, all in a simple intuitive interface.
- **Video demonstrations:** Instructor-led video demonstrations guide the learners step by step through the labs while providing additional insights to solidify the concepts.

## CONTENTS (GUIDE TO MANAGING AND MAINTAINING YOUR PC)

1. Intro to Hardware. 2. Intro to Operating Systems. 3. Working with People in a Technical World. 4. Form Factors and Power Supplies. 5. All About Motherboards. 6. Supporting Processors. 7. Upgrading Memory. 8. Supporting Hard Drives. 9. Installing and Supporting I/O Devices. 10. Multimedia Devices and Mass Storage. 11. PC Maintenance and Troubleshooting Strategies. 12. Installing Windows. 13. Maintaining Windows. 14. Optimizing Windows. 15. Tools for Solving Windows Problems. 16. Fixing Windows Problems. 17. Networking Essentials. 18. Networking Practices. 19. Security Essentials. 20. Security Practices. 21. Supporting Notebooks. 22. Supporting Printers.

## CONTENTS (GUIDE TO HARDWARE)

Labs follow the organization of the A+ Guide to Hardware 5E text. The Table of Contents of that book follows here. 1. Introducing Hardware. 2. Form Factors, Power Supplies and Working Inside a Computer. 3. All About Motherboards. 4. Supporting Processors. 5. Upgrading Memory. 6. Supporting Hard Drives. 7. Installing and Supporting I/O Devices. 8. Multimedia Devices and Mass Storage. 9. PC Maintenance and Troubleshooting Strategies. 10. Networking Essentials. 11. Supporting Notebooks. 12. Supporting Printers.

## CONTENTS (GUIDE TO SOFTWARE)

Labs follow the organization of the A+ Guide to Software 5E text. The Table of Contents of that book follows here. 1. Introducing Operating Systems. 2. Working with People in a Technical World. 3. Installing Windows. 4. Maintaining Windows. 5. Optimizing Windows. 6. Tools for Solving Windows Problems. 7. Fixing Windows Problems. 8. Networking Essentials. 9. Networking Practices. 10. Security Essentials. 11. Security Practices.

**NEW!**

# A+ PRACTICAL APPLICATIONS COURSENOTES, EXAM #220-702 FOR ANDREWS' A+ GUIDE TO MANAGING & MAINTAINING YOUR PC, SECOND EDITION

Course Technology

ISBN: 1-4354-8724-9

ISBN-13: 978-1-4354-8724-6

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CourseNotes is a laminated six-panel quick reference card that reinforces the most important topics needed to know to prepare for CompTIA's A+ Practical Applications 220-702 exam in a visual and user-friendly format. CourseNotes will serve as a great reference tool throughout the course as well as after the learner completes the course.

**NEW!**

# COMPTIA A+ PC REPAIR FLASHCARDS FOR ANDREWS' A+ GUIDE TO MANAGING & MAINTAINING YOUR PC, SECOND EDITION

Course Technology

ISBN: 1-4354-8723-0

ISBN-13: 978-1-4354-8723-9

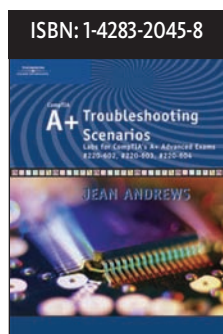
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Use the PC Repair flashcards to test students' knowledge of PC repair concepts and to help them prepare for CompTIA's 2009 A+ exams. STUDENT DESCRIPTION: Use your flashcards to test your knowledge of PC repair concepts and to help you prepare for CompTIA's 2009 A+ exams.



# A+ TROUBLESHOOTING SCENARIOS

Jean Andrews



ISBN: 1-4283-2045-8

ISBN-13: 978-1-4283-2045-1

176 pp, 8-1/2" X 11", SC, 1-Color, ©2008

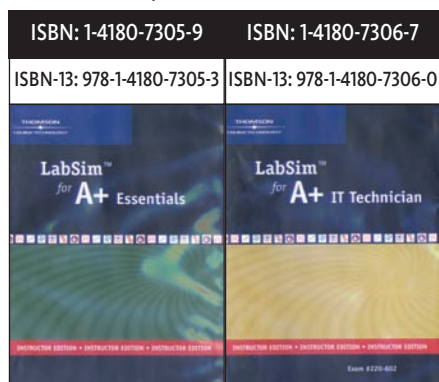
*A+ Troubleshooting Scenarios* will provide users with the skills needed to succeed both on the job and on the A+ certification exams. This book focuses specifically on the knowledge and skills necessary to pass CompTIA's A+ advanced exams and provides a concise review of domain objectives for CompTIA's A+ 220-602, 220-603, and 220-604 exams. The troubleshooting scenarios provide users with troubleshooting techniques and real life scenarios that specifically target the A+ exam objectives and provides students with ample practice for problem solving. *A+ Troubleshooting Scenarios* is designed to be a capstone addition to core A+ training material, targeted specifically at those candidates who have successfully completed the A+ Essentials exam and are now preparing to take the Advanced exam(s).

## CONTENTS

Personal Computer Components. Laptops and Portable Devices. Operating Systems. Printers and Scanners. Networks. Security. Safety and Environmental Issues. Communication and Professionalism. Acronyms. Practice Exam Answers.

## LABSIM FOR A+ ESSENTIALS LABSIM FOR A+ IT TECHNICIAN / #220-602

TestOut! Corporation



ISBN: 1-4180-7305-9

ISBN: 1-4180-7306-7

Software, ©2007

ISBN-13: 978-1-4180-7305-3

ISBN-13: 978-1-4180-7306-0

LabSims prepare students for the CompTIA A+ exams and provide students with the basic skills to properly install, build, upgrade, repair, configure, troubleshoot, optimize, and diagnose problems with PC hardware and operating systems. LabSims feature unique, open simulations that let students get hands-on practice with computer hardware and operating systems. This rich, full-scale software allows users to move freely through a safe, simulated environment to accomplish tasks in a variety of ways. Looking for more instruction in certain areas? Extensive demonstrations and videos provide the illustration and guidance to help students master hardware and software skills even without access to actual computers.

LABSIM for  
A+ Essentials

LABSIM for  
A+ IT Technician  
/ #220-602

## CONTENTS (A+ ESSENTIALS)

Computing Overview. System Components. File System. Peripheral Devices. Networking. Printers. Portable Devices. System Management. Security. Windows Installation. Optimization.

## CONTENTS (A+ IT TECHNICIAN / #220-602)

System Components. Storage Devices. File System. Printing. Networking. Portable Devices. Security. System Management. Troubleshooting.

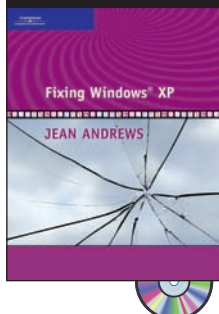
# FIXING WINDOWS® XP

Jean Andrews

ISBN: 1-4188-3702-4

ISBN-13: 978-1-4188-3702-0

400 pp, 8-1/2" x 10-3/4", SC, 4-Color, ©2007



Written to help make your life easier and more fun, *Fixing Windows® XP* is designed for those computer users who want to take control of their own computer. Consider this book your ultimate take-charge tool! It is organized to address the most common Windows® XP Professional and Windows® XP Home Edition problems, with chapters that show you exactly what to do to solve each one. This book will give you the power and the knowledge to be your own Help Desk.

## CONTENTS

Windows XP Quick Fixes. Making Windows XP Boot Like New. Removing Malicious Software. XP Pest Control. Wired and Wireless Made Easy. Fixing Hardware and Application Errors. Resurrecting the Dead. Upgrading your Windows XP Computer Appendices.

# SUPPORTING WINDOWS VISTA

Jean Andrews

ISBN: 1-4239-0216-5

ISBN-13: 978-1-4239-0216-4

102 pp, 8-1/2" X 11", SC, 1-Color, © 2008



*Supporting Windows Vista* provides an in-depth look at Microsoft's latest desktop and laptop operating system, Windows Vista. Topics covered include: installing Windows Vista, hardware and applications, setting up user accounts, customizing the desktop, configuring security options, monitoring performance, and troubleshooting startup problems. Written to help you easily integrate the new operating system and designed to accompany *A+ Guide to Managing and Maintaining Your PC, Sixth Edition*, and *A+ Guide to Software, Fourth Edition*, you will learn how to successfully install, maintain, secure and troubleshoot this new OS.

## CONTENTS

What's New with Windows Vista. Installing Vista, Hardware, and Applications. User Profiles and Data. Vista Support Tools. Vista Security. Supporting Vista Startup.

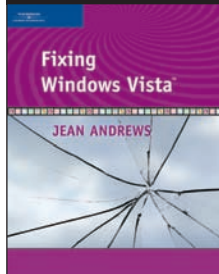
# FIXING WINDOWS® VISTA

Jean Andrews

ISBN: 1-4283-2043-1

ISBN-13: 978-1-4283-2043-7

400 pp, 8-1/2" x 10-3/4", SC, 4-Color, ©2009



*Fixing Windows Vista* is organized to address the most common Windows Vista problems, with chapters that show you exactly what to do to solve each one. This book will give you the power to take control of your own computer and will give you the power and knowledge to be your own Help Desk.

## CONTENTS

Windows Vista Quick Fixes. Making Windows Vista Boot Like New. Removing Malicious Software. Vista Pest Control. Wired and Wireless Made Easy. Fixing Hardware and Application Errors. Resurrecting the Dead. Upgrading your Windows Vista Computer.

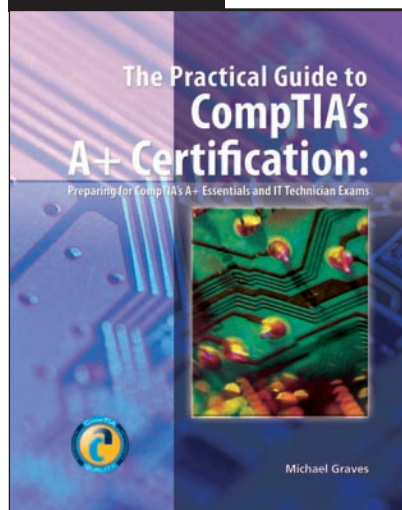
# THE PRACTICAL GUIDE TO COMPTIA'S A+ CERTIFICATION: PREPARING FOR COMPTIA'S A+ ESSENTIALS AND IT TECHNICIAN EXAMS

Michael Graves

ISBN: 1-4283-2241-8

ISBN-13: 978-1-4283-224-7

850 pp, 7- 3/8" X 9-1/4", 1-Color, ©2008



*The Practical Guide to CompTIA's A+ Certification: Preparing for CompTIA's A+ Essentials and IT Technician Exams* covers everything you need to know to pass the new exams from CompTIA. With its easy-to-read style, *The Practical Guide to CompTIA's A+ Certification* serves as a good training manual and as a valuable reference long after your certification is hanging on your wall. The text examines basic components of computer hardware systems, as well as how to upgrade and troubleshoot computers. This guide includes practice exam questions, as well as separate glossaries for terms and acronyms. Each chapter is highlighted with "buzz-words" helping to increase readers' technical vocabulary. Exam notes and sidebars help explain related issues in detail.

## KEY FEATURES

- upbeat, conversational tone engages readers, enabling them to easily grasp and retain information
- serves as an ideal text for the 5-day "boot camp" style certification courses, as well as courses with an extended format
- hands-on labs are provided in the text so no need to purchase separate lab manual
- Microsoft® Vista is covered

## CONTENTS

PC Fundamentals. Internal Data Communications. The Basic Components. An Introduction to Operating Systems. Windows 2000 and XP. An Overview of Windows. Supporting and Troubleshooting Operating Systems. Interface Devices. Motherboards, BIOS and the Chipset. CPUs. Understanding Memory. Removable Media. Understanding Hard Disks. Your Computer and Graphics. Digital Imaging. The Technology of Printing. Portable Computing. Getting on the Network. Basic Troubleshooting Procedures. Navigating the Internet. Working with Computer Security. Data Backup and Recovery. Introducing Vista. The Soft Skills. Appendices: Answers to Exercises. Glossary of Tricky Terminology. Glossary of Acronyms. A+ Objective Exam Map.

## SUPPLEMENT

 **e.resource** ISBN: 1-4283-2242-6

## ABOUT THE AUTHOR

**Michael Graves** is a certified hardware technician, network engineer and technical writer. He has taught computer hardware courses at Champlain College and The Essex Technical Center in Vermont. In addition, Michael Graves is certified in A+, Network +, Server+, INET+ and has been certified by Dell and Compaq to work on their different lines of servers.



## ALSO AVAILABLE

### THE PC TECHNICIAN'S POCKET FIELD GUIDE

Michael Graves

224 pp, 4-1/2" x 7-1/2", 1-Color, SC, ©2006

ISBN: 1-4180-1697-7

ISBN-13: 978-1-4180-1697-5

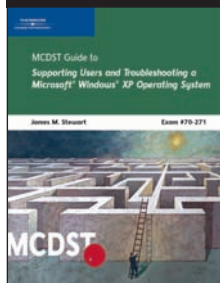
# MCDST GUIDE TO SUPPORTING USERS AND TROUBLESHOOTING A MICROSOFT® WINDOWS® XP OPERATING SYSTEM (EXAM #70-271)

James Michael Stewart

ISBN: 0-619-21604-2

ISBN-13: 978-0-619-21604-7

648 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2004



Students will master the objectives for the Microsoft Desktop Support Technician exam #70-271 using an approach created specifically for them. Their learning will be enhanced with extensive end-of-chapter exercises and hands-on projects with a free MeasureUp test preparation CD included with the text.

## CONTENTS

Planning the Installation of Windows XP. Attended and Unattended Installations and Troubleshooting. Upgrading from a Previous Version of Windows. Troubleshoot System Startup and User Logon Problems. User Environment and Multiple Languages. Configure and Troubleshoot Local User and Group Accounts. Troubleshoot Security Settings and Local Security Policy. Troubleshooting Storage Devices and Display Devices. Troubleshooting Power Management and I/O Devices. Collect and Analyze System Performance Data. Managing Access to Shared File System Resources. Network Printing and Offline Files. Troubleshoot TCP/IP. Troubleshooting Remote Connections. Internet Explorer and Remote Connectivity Tools. Practice Exam.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 0-619-21605-0

**Lab Manual** ISBN: 0-619-21669-7

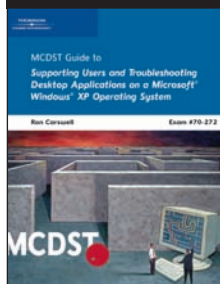
# MCDST GUIDE TO SUPPORTING USERS AND TROUBLESHOOTING DESKTOP APPLICATIONS ON A MICROSOFT® WINDOWS® XP OPERATING SYSTEM (EXAM #70-272)

Ron Carswell

ISBN: 0-619-21602-6

ISBN-13: 978-0-619-21602-3

642 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2004



Students will master the objectives for the new Microsoft Desktop Support Technician exam #70-272 using an approach created specifically for them. Their learning will be enhanced with extensive end-of-chapter exercises and hands-on projects with a free MeasureUp test preparation CD included with the text.

## CONTENTS

Introduction to Supporting Users. Overview of Microsoft User Applications. Resolve Issues Related to Operating System Customization. Configure User-Related Issues. Configure and Troubleshoot Internet Explorer and Outlook Express. Install Microsoft Office 2003. Configuring and Troubleshooting Operating System Features. Resolving Issues Related to Office Application Usage. Configure, Customize, and Migrate to Outlook. Configure and Troubleshoot Devices and Connectivity. Resolve Folder and File Issues. Configure Application Security. Manage Office Application Updates and Upgrades. Practice Exam.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 0-619-21603-4

**Lab Manual** ISBN: 0-619-21717-0

## ALSO AVAILABLE

**A GUIDE TO CUSTOMER SERVICE SKILLS FOR THE HELP DESK PROFESSIONAL, SECOND EDITION**

Donna Knapp

384 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2005

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**Instructor Resources** ISBN: 0-619-21642-5



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For more information on the increasing popularity of Linux, the new series of books and the Novell Academic Training Partner Program visit <http://emarketing.delmarlearning.com/novell.html>.

**The world of OPEN SOURCE awaits you. . .**

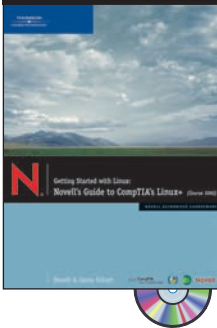
## GETTING STARTED WITH LINUX: NOVELL'S GUIDE TO COMPTIA'S LINUX+ (COURSE 3060)

Novell & Jason Eckert

ISBN: 1-4188-3730-X

ISBN-13: 978-1-4188-3730-3

848 pp, 8-1/2" x 11", SC w/CD-ROM, 1-Color, ©2007



*Getting Started with Linux: Novell's Guide to CompTIA's Linux+ (Course 3060)* introduces students to the knowledge and skills needed to manage all Linux distributions. Specifically, this course covers the objectives outlined by CompTIA® for its Linux+ exam and certification, an international industry credential that offers proof of knowledge. Not only does this course prepare students for the ComTIA® Linux+ exam, but it offers an excellent way to begin preparing for the Novell Certification Linux Professional (Novell CLP) practicum exam. In fact, after completing this course, students will have acquired one-third the knowledge needed to become a full Novell CLP, the ideal certification for people interested in becoming Linux administrators.

### CONTENTS

Linux Basics and SLES 9 Installation. Use the Linux Desktop. Locate and Use Help Resources in the Linux System. Use the YaST Management Utility. Manage Directories and Files in Linux. Work with the Linux Shell and Edit Text Files. Use the Command Line Interface to Administer the System. Processes, Jobs, and Runlevels. Manage the Network Configurations. Manage Network Services. Manage Security. Hardware Basics.

### SUPPLEMENT

**Instructor's Resource** ISBN: 1-4180-6298-7



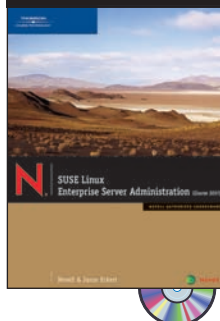
# SUSE LINUX ENTERPRISE SERVER ADMINISTRATION (COURSE 3037)

Novell & Jason Eckert

ISBN: 1-4188-3731-8

ISBN-13: 978-1-4188-3731-0

760 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2007



As a growing number of companies migrate to Linux, they're looking for trained and talented Linux administrators. Students gain the knowledge and skills they need to become such an administrator by completing SUSE Linux Administration (Course 3037 v2.0). This in-depth, hands-on course covers a variety of topics: installing and configuring SUSE Linux Enterprise Server 9, managing users and groups, securing the system and much more. Practically apply course concepts and strengthen proficiency in Linux administration by completing multiple lab exercises. This course should be taken after completing *Getting Started with Linux: Novell's Guide to CompTIA's Linux (Course 3060)*.

## CONTENTS

Introduction to Managing the SUSE LINUX Enterprise Server. Manage User Access and Security. Manage the Linux File System. Manage Software for SUSE LINUX Enterprise Server. Manage System Initialization. Manage Linux Processes and Services. Connect the SUSE LINUX Enterprise Server to the Network. Enable Infrastructure Services. Enable Internet Services. Manage Remote Access. Live Fire Exercise. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4180-6299-5

# ADVANCED SUSE LINUX ENTERPRISE SERVER ADMINISTRATION (COURSE 3038)

Novell & Jason Eckert

ISBN: 1-4188-3732-6

ISBN-13: 978-1-4188-3732-7

415 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2007



Linux is in high demand, and experienced Linux administrators are being hired and promoted at an unprecedented rate. Are your students ready to take their Linux knowledge to the next level? With *Advanced SUSE Linux Administration (Course 3038 v2.0)*, they will learn how to perform advanced administration tasks on SUSE Linux Enterprise Server 9: installation and manual configuration, performance tuning, backup and recovery services, and much more. Before taking this course, students should complete the prerequisite courses – which include *Getting Started with Linux: Novell's Guide to CompTIA's Linux+ (Course 3060)* and *SUSE Linux Administration (Course 3037)* – or have experience managing SUSE Linux Enterprise Server 9 servers in a networked environment.

## CONTENTS

Install SLES 9. Configure the Network Manually. Configure Network Services. Secure a SLES 9 Server. Manage Backup and Recovery. Create Shell Scripts. Compile Software from Source. Monitor a SLES 9 Installation. Manage Hardware and Component Changes.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4180-6300-2

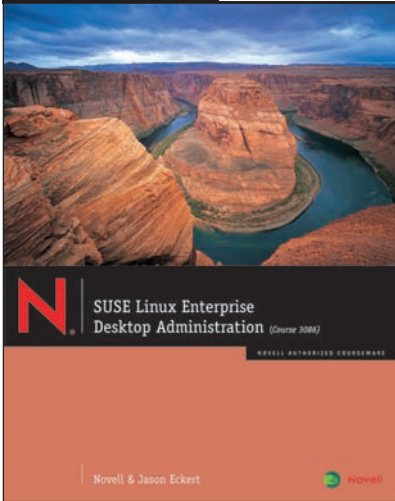
# SUSE LINUX ENTERPRISE DESKTOP ADMINISTRATION

Jason Eckert

ISBN: 1-4283-2227-2

ISBN-13: 978-1-4283-2227-1

500 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



## ABOUT THE AUTHOR

**Jason Eckert** is an experienced author. He has adapted the first 3 Novell texts for the academic market. A graduate of the University of Waterloo, Jason has 13 years of experience as a UNIX administrator and software developer, mainly in large batch-scientific computing environments. He currently teaches at triOS College and holds 12 different UNIX and Linux certifications. He has authored or co-authored several texts, including *Linux+ Guide to Linux Networking* and *MCSE Guide to Managing a Microsoft Windows Server 2003 Network*.

The release of Novell's SUSE Linux Enterprise Server version 10 (SLES 10) marked a new era for the Open Source server. SLES 10 was developed with interoperability in mind. It can be integrated seamlessly into existing network environments, both Open Source and proprietary. It provides a manageable, stable, secure, and affordable network environment. The Linux community at large is constantly updating and improving the Linux kernel. Novell generates their revenue by building a support package around SLED 10. The elimination of development costs allows Novell to offer SLED 10 at significantly lower cost than Microsoft's desktop OS. This model makes SLED 10 an affordable and attractive alternative desktop operating system for corporate environments, and many have already adopted it. Companies such as Marriott, CNN, Circuit City, HP, Dell, and Publix have adopted SLES 10, and now Industry certification bodies are recognizing the benefits of SLES 10 as well. As demand increases for this new operating system, the demand for trained Novell Administrators also increases.

*SUSE Linux Enterprise Desktop Administration* introduces network professionals to the new server program, and it contains Course Technology's proven academic pedagogy, making this the ideal classroom solution for teaching Novell.

## KEY FEATURES

- explains complex concepts in straightforward terms for a smooth and problem-free transition to SLES 10
- provides detailed introduction to the program's new features, and shows networking professionals how to use and administer this network
- offers all the critical information students need to successfully move into a role as an IT professional and support SUSE Linux in any environment
- academic pedagogy, including Chapter Summaries, Key Terms, Review Questions, and Exercises help reinforce concepts

## CONTENTS

Install SUSE Linux Enterprise Desktop 10. Use the Linux Desktop. Locate and Use Help Resources. Administer Linux with YaST. Manage the Network Configuration. Manage Software. Manage Directories and Files. Work with the Linux Shell and Command Line. Manage Users, Groups, and Permissions. Monitor the Linux System and Control Processes. Manage System Initialization. Administer Printing. Integrate SUSE Linux Enterprise Desktop 10 into Existing Environments. Customize the Graphical Interface on SUSE Linux Enterprise Desktop 10. Deploy SUSE Linux Enterprise Desktop 10. Appendices: Useful Commands. Network Components and Architecture. Use the KDE Desktop Environment.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4283-2228-0

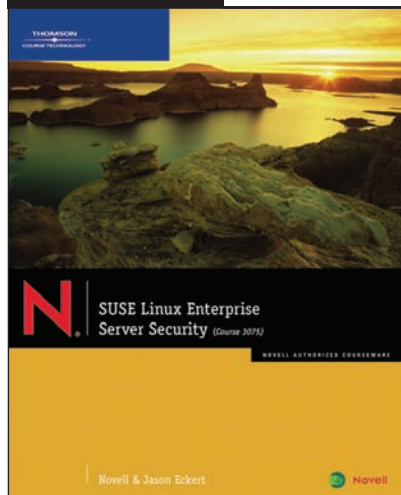
# SUSE LINUX ENTERPRISE SERVER SECURITY

Novell & Jason Eckert

ISBN: 1-4283-2223-X

ISBN-13: 978-1-4283-2223-3

452 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



## ABOUT THE AUTHOR

See page 54.

*SUSE Linux Enterprise Server Security* introduces network professionals to the many security features of the new server program. Its academic pedagogy makes it the ideal classroom solution for teaching network security on SUSE Linux and it offers a unique hands-on approach to problem-solving. To help readers comprehend how Linux security concepts and techniques are applied in real-world organizations, this book incorporates features such as Activities, Tips, Notes, and Discovery Exercises.

## KEY FEATURES

- explains complex concepts in straightforward terms for a smooth and problem-free transition to SLES 10
- provides detailed introduction to the program's new security features, and shows networking professionals best methods for securing networks
- offers all the critical information students need to successfully move into a role as an IT professional and support SUSE Linux in any environment
- academic pedagogy, including Chapter Summaries, Key Terms, Review Questions, and Exercises help reinforce concepts

## CONTENTS

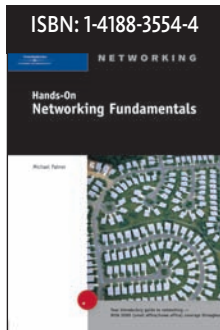
General Considerations and Definitions of Terms. Host Security. AppArmor. Cryptography: Basics and Practical Application. Network Security. General Firewall Design. Packet Filters. Application-Level Gateways. Virtual Private Networks. Intrusion Detection and Incident Response. Live Fire Exercise.

## SUPPLEMENT

**Instructor's Resource on CD-ROM** ISBN: 1-4283-2226-4

# HANDS-ON NETWORKING FUNDAMENTALS

Michael Palmer



ISBN: 1-4188-3554-4

ISBN-13: 978-1-4188-3554-5

544 pp, 8-1/2" x 10-7/8", SC, 4-Color, ©2005

Designed with the novice networking user in mind, *Hands-On Networking Fundamentals* provides information and instruction about all types of networks from the ground up. This book allows readers to obtain the skills necessary to perform network installations and basic troubleshooting, while encouraging them to feel confident in moving into a Network+ course of study. The result is a truly hands-on, interactive learning experience. New concepts are presented in clear language and the activities and realistic case studies reinforce learning at each step. In the context of learning network fundamentals, students also learn practical design methods for home, small business, and large enterprise networks. Extensive learning tools, including Review Questions, Hands-On Projects, and Case Projects, which allow students to practice skills as they are learned

## CONTENTS

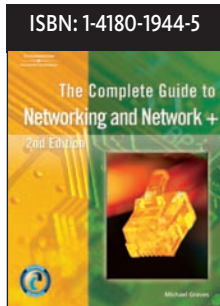
Networking: An Overview. How LAN and WAN Communications Work. Using Network Communication Protocols. Connecting Through a Cabled Network. Devices for Connecting Networks. Connecting Through a Wireless Network. Sharing Resources on a Network. Using a Server. Understanding WAN Connection Choices. Basic Network Design. Securing Your Network. Maintaining and Troubleshooting Your Network. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4188-3591-9

# THE COMPLETE GUIDE TO NETWORKING AND NETWORK+, SECOND EDITION

Michael Graves



ISBN: 1-4180-1944-5

ISBN-13: 978-1-4180-1944-0

704 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2006

This straightforward guide to installing, configuring, and troubleshooting computer networks is organized in accordance with CompTIA's test objectives, taking readers through the seven layers of OSI. From there, hands-on coverage of how networks are set up and configured transports readers out of the realm of theory and into the "real world" of networking. A CD with video clips and practice test questions is included.

## CONTENTS

An Introduction to Networking: Some Raw Basics of Networking. Clients and Servers – Who's the Boss?. The Highways and Byways of the Network. The World of OSI: Welcome to OSI. Understanding the Physical Layer. The Data Link Layer. The Network Layer. The Transport Layer. The Session Layer. The Application and Presentation Layer. The Networking Protocols: An Introduction to TCP/IP. Using TCP/IP on the Network. The Other Protocols. Putting It All To Work: Working with Remote Access. Working with Network Security. Data Recovery and Fault Tolerance. Planning a Network Installation. Network Documentation and Scheduled Maintenance. Troubleshooting the Network. Navigating the Internet.

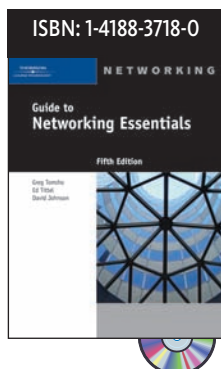
## SUPPLEMENTS

**e.resource** ISBN: 1-4180-1948-8

**Lab Manual** ISBN: 1-4180-1945-3

# GUIDE TO NETWORKING ESSENTIALS, FIFTH EDITION

Greg Tomsho, Ed Tittel & David Johnson



ISBN: 1-4188-3718-0

ISBN-13: 978-1-4188-3718-1

688 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2007

This updated edition, provides a baseline level of knowledge for success in industry and preparation for networking certifications, including the MCSA, MCSE, CNA and CCNA designations. Updates include new industry topics such as Networked Attached Storage (NAS), Cable Installation and Management, as well as Fixed and Mobile WiMAX. Written with a focus on networking operating systems, this book continues to provide up-to-date coverage of Microsoft Windows XP and Server 2003 technologies along with UNIX, Red Hat Linux, and NovellNetWare operating systems. Included is a CD-ROM with detailed, graphical simulations of common networking processes, such as switch operation, layers of the networking process, network address translation, Ethernet operation and more so that you can read about these processes and see them in action.

## CONTENTS

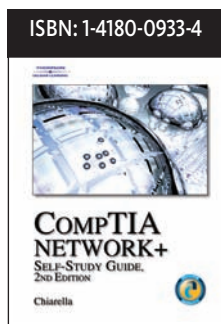
Introduction to Networks and Networking Concepts. Network Design Essentials. Networking Media. Network Interface Cards. Making Networks Work. Network Communications and Protocols. Network Architectures. Simple Network Operations. Introduction to Network Security. Supporting a Small Business Network. Enterprise and Distributed Networks. Wide Area and Large-Scale Networks. Solving Network Problems. Appendix A: Common Networking Standards and Older Technologies. Appendix B. Planning and Implementing Networks. Appendix C. Network Troubleshooting Guide. Appendix D: Networking Resources, Online and Offline.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4188-3768-7

# COMPTIA NETWORK+ SELF-STUDY GUIDE, SECOND EDITION

Anthony V. Chiarella



ISBN: 1-4180-0933-4

ISBN-13: 978-1-4180-0933-5

320 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2005

New edition covering the new 2005 Network+ exam objectives! In just a short time, readers can be thoroughly prepared to take and pass the Network+ Exam. Written for students and professionals seeking Network+ certification, this compact, easy-to-read study guide gets directly to the point by covering the most important concepts you need to know to pass the exam. Reviewed by CompTIA, the book has received the CompTIA's Quality Authorized Curriculum (CAQC) seal of approval. The text features skills-based "Knowledge Tests" to help prepare readers for the types of questions they are likely to encounter during the exam. "Test Tips" throughout the book highlight and recall important concepts.

## CONTENTS

Introduction to Networking. Open Systems Interconnect Model. Project 802 and Layer 2 Protocols. Network Protocols. Network Addressing. Routing and WAN Protocols. Network Operating Systems. Supporting a Network. Troubleshooting a Network. Appendix. Answers to Knowledge Test Questions. Glossary.



# NETWORK + GUIDE TO NETWORKS, FIFTH EDITION

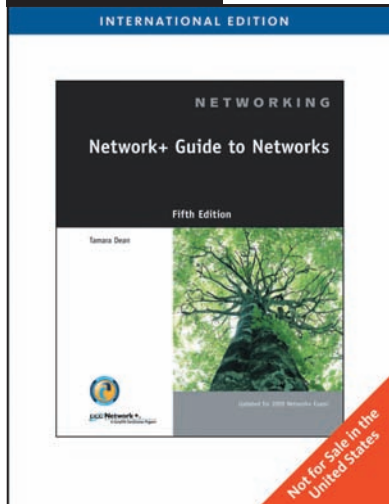
Tamara Dean

**NEW!**

ISBN: 0-619-21743-X

ISBN-13: 978-0-619-21743-3

1024 pp, 7-3/8" x 9-1/4", PB, 4-Color ©2010



## ABOUT THE AUTHOR

**Tamara Dean** has worked in the field of networking for over 14 years. She began her career at the FCC, analyzing the equipment and facilities records of AT&T and the RBOCs. Later she spent several years maintaining LANs with mixed clients, remote access, and Internet connectivity at a pharmaceutical firm and then at the University of Wisconsin. She has also worked as a networking consultant and as the manager of Internet services and data center operations for a regional ISP whose clients include Lands End and Harley Davidson.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4239-2578-5

Knowing how to install, configure, and troubleshoot a computer network is a highly marketable and exciting skill. This book first introduces the fundamental building blocks that form a modern network, such as protocols, topologies, hardware, and network operating systems. It then provides in-depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. After reading the book and completing the end-of-chapter exercises, you will be prepared to select the best network design, hardware, and software for your environment. You will also have the skills to build a network from scratch and maintain, upgrade, and troubleshoot an existing network. Finally, you will be well prepared to pass CompTIA (the Computing Technology Industry Association) Network+ certification exam. This book explains concepts logically and in a clear, approachable style. In addition, concepts are reinforced by real-world examples of networking issues from a professionals standpoint. Each chapter opens with an On the Job story from a network engineer. These real-world examples, along with Hands-on Projects and Case Projects in each chapter, make this book a practical learning tool. The numerous tables and illustrations, along with the glossaries, appendices, and study questions make the book a valuable reference for any networking professional.

## KEY FEATURES

- Updates on wireless LANs/WANs, IPv6, wireless routers, VOIP, video over IP, virtualization, modified Hands-on Projects for use with Windows Vista clients and newer Linux clients, new On The Job vignettes
- Full color content maps completely to the 2009 CompTIA Network+ Certification Exam, with in-depth coverage of all objectives.
- On The Job stories at the beginning of each chapter provide a real-world context for the technology and concepts presented.
- Network+ certification icons in the margins highlight all the materials related to the exam.
- Features extensive learning tools, including Review Questions, Hands-On Projects, and Case Projects, which allow students to practice skills as they are learned.

## CONTENTS

1. An Introduction to Networking.2. Networking Standards and the OSI Model.3. Transmission Basics and Networking Media.4. Introduction to TCP/IP.5. Topologies and Ethernet Standards.6. Network Hardware.7. WANs and Remote Connectivity.8. Wireless Networking.9. Network Operating Systems.10. In-Depth TCP/IP Networking.11. Voice, Video, and Data Convergence.12. Network Security.13. Troubleshooting Network Problems.14. Ensuring Integrity and Availability.15. Network Management.Chapter Summary.Key Terms.Review Questions.Hands-on Projects.Case Projects.Appendix A - Network+ Examination Objectives.Appendix B - Network+ Practice Exam.Appendix C - Visual Guide to Connectors.

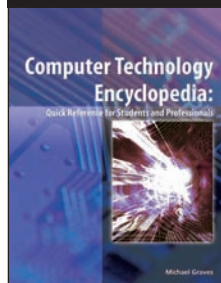
# COMPUTER TECHNOLOGY ENCYCLOPEDIA

Michael Graves

ISBN: 1-4283-2236-1

ISBN-13: 978-1-4283-2236-3

500 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2009



The Computer Technology Encyclopedia is a handy reference for students and professionals. Going beyond basic definitions, this comprehensive reference provides descriptions of computer technology terms, as well as including numerous tables, photos and illustrations.

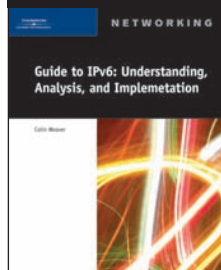
## GUIDE TO IPv6: UNDERSTANDING, ANALYSIS & IMPLEMENTATION

Colin Weaver

ISBN: 1-4283-2239-6

ISBN-13: 978-1-4283-2239-4

650pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



Stay on the cutting edge of the information technology industry by learning to understand and implement Internet Protocol version 6 (IPv6). If you're working or planning to work in today's information technology environment, you know the importance of staying current. Designed to keep you current, *Guide to IPv6: Understanding, Analysis & Implementation* explores the IPv6 protocol and how it is best employed in today's networks, including Microsoft, Linux, and Cisco. The book begins by highlighting the limitations of its predecessor, IPv4. It showcases IPv6's design objectives, and shows how they aim to overcome the limitations of IPv4, and how they will meet the needs of computer networks for decades to come. With this understanding, coverage then progresses to a detailed examination of the new protocol's base architecture, including a discussion of packet structure, addressing, and IPv6 subnetting.

### CONTENTS

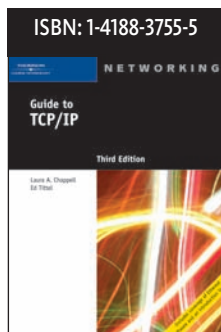
The Need for Ipv6. Ipv6 Packet Structure. Ipv6 Address Architecture. Understanding Ipv6 Addressing. Ipv6 Subnetting. Basic Ipv6 Configuration. DHCP for Ipv6. ICMPv6. ICMPv6 Neighbor Discovery. Ipv6 Router Renumbering. Multicast Addressing. Ipv6 Multicast Listener Discovery. Routing Ipv6. Ipv6 Deployment and Migration.

### SUPPLEMENT

**Instructor's Resource** ISBN: 1-4283-2240-X

# GUIDE TO TCP/IP, THIRD EDITION

Laura A. Chappell & Ed Tittel



ISBN-13: 978-1-4188-3755-6

768 pp, 7-3/8" x 11", SC, 1-Color, ©2007

*Guide to TCP/IP, Third Edition*, provides a comprehensive, hands-on look at TCP/IP featuring the same bottom-up approach favored for technology texts for professionals, but specifically geared for classroom use. This new edition has been updated to cover the latest TCP/IP stack implementations in Windows 2000/XP/2003 and coverage of IPv6 and SMTP, and includes new material about Voice over IP (VoIP) protocols and instant messaging services. It has also been rebuilt around the Ethereal protocol analyzer, which is a freely available Open Source protocol analysis tool.

## CONTENTS

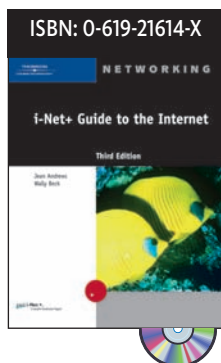
Introducing TCP/IP. IP Addressing and Related Topics. Data Link and Network TCP/IP Protocols. Internet Control Message Protocol. Transport Layer TCP/IP Protocols. Basic TCP/IP Services. Domain Name System (DNS). The Dynamic Host Configuration Protocol. Securing TCP/IP Environments. Routing in the IP Environment. Monitoring and Managing IP Networks. TCP/IP, NETBIOS, and WINS. Internet Protocol Version 6. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4180-6187-5

# I-NET+ GUIDE TO THE INTERNET, THIRD EDITION

Jean Andrews & Wally Beck



ISBN-13: 978-0-619-21614-6

872 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color ©2004

Written to prepare readers for CompTIA's latest i-Net+ certification exam, this book surveys the various technologies that form and make the Internet work. It will prepare the reader to understand current technologies and make intelligent business decisions concerning the Internet. Free MeasureUp software is included to maximize exam success.

## CONTENTS

Using the Internet. Building Your Own Web Site. How Clients and Servers Work Together. Sights and Sounds of the Internet. Understanding Networks. Internet Infrastructure. Internet Clients. Solving Client Problems. Web Programming and Related Tools. Databases and Web Hosting. Internet Security. Doing Business on the Web. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 0-619-21615-8

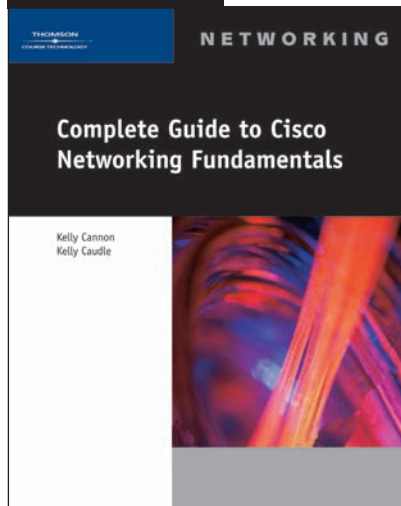
# COMPLETE GUIDE TO CISCO NETWORKING FUNDAMENTALS

Kelly Cannon & Kelly Caudle

ISBN: 1-4188-3705-9

ISBN-13: 978-1-4188-3705-1

550 pp, 7 3/8" x 9 1/4", HC w/CD-ROM, 1-Color, ©2008



## ABOUT THE AUTHOR

**Kelly Cannon** is a practicing engineer, certified networking expert, and full-time networking instructor at Piedmont Community College in Charlottesville, VA. She is co-author of *CCNA Guide to Cisco Networking Fundamentals* (CT, 2000) and author of *Lab Manual for CCNA Guide to Cisco Networking Fundamentals* and *Lab Manual for CCNA Guide to Cisco Routing* (CT, 2000).

**Kelly Caudle** is an instructor at Stanly Community College. He holds numerous industry credentials, including CCNP, CCDA, CCNA, and MCSE, and is also a Cisco Networking Academy Regional Instructor.

*Complete Guide to Cisco Networking Fundamentals* is a comprehensive guide for anyone wishing to obtain a solid background in basic Cisco networking concepts. Students are first introduced to theory-based concepts, which are followed-up with practical hands-on labs that can either be accomplished in a classroom lab environment or with the Cisco lab simulator software provided with the text. The lab simulator provides hands-on activities and directly coincide with the labs presented in the book, to provide the flexibility for online courses. This book is suitable for use in any Cisco networking course.

## KEY FEATURES

- maps completely to the Cisco Certified Network Associate (CCNA) Exam #640-807, with in-depth coverage of all exam objectives
- offers seamless delivery online or in a traditional classroom
- features extensive learning tools, including Review Questions, Hands-On Projects, and Case Projects, which allow students to practice skills as they are learned
- CD-ROM includes CCNA CertBlaster software for test preparation and drilling, and CCNA LabConnection software which simulates a Cisco lab for hands-on practice

## CONTENTS

Networking Fundamentals. TCP/IP and IP Addresses. Subnetting IP. Routing Basics and the IOS. Basic Routing and Routing Protocols. Advanced Routing Protocols. Access Lists. Switching. Virtual LANs (VLANs). Wide Area Networking. Integrated Services Digital Network (ISDN). Frame Relay.

## SUPPLEMENTS

**Lab Connection** ISBN: 1-4188-3717-2

**Certblaster Test Prep Software** ISBN: 1-4188-3693-1

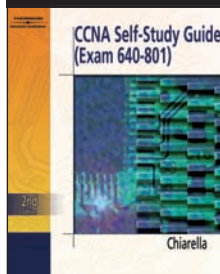
# CCNA SELF-STUDY GUIDE, SECOND EDITION (EXAM #640-801)

Anthony V. Chiarella

ISBN: 1-4180-0574-6

ISBN-13: 978-1-4180-0574-0

288 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2006



Take the direct route to timely mastery of the CCNA (Cisco Certified Network Associate) exam! This compact, no-nonsense test prep manual covers the 'must know' information readers need to pass Cisco CCNA exam—in fewer than 300 pages. Succinct, user-friendly coverage strengthens readers' knowledge of networking technologies and Cisco-specific products, with twenty questions per chapter that relate directly to the objectives on the exam. Practical Test Tips help readers focus on specific areas of concern, while essential skillbased questions build their knowledge of how to work on the equipment explicitly featured on the routing and switching exam.

## CONTENTS

Internetworking Models and Communication Standards. Transmission Control Protocol/Internet Protocol (TCP/IP). Configuring and Managing a Cisco Router. IP Routing (RIP and IGRP). IP Routing (OSPF and EIGRP). Access Lists. Routing in a Wide Area Network. Layer 2 Switching in a Local Area Network. Appendix A: Abbreviated CLI Commands. Appendix B: CCNA Exam Preparation. Appendix C: Answers to Knowledge Test Questions. Appendix D: Password Recovery Procedures. Glossary. Index.

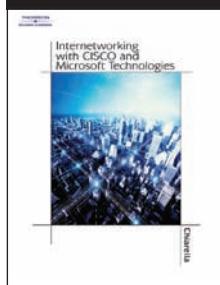
# INTERNETWORKING WITH CISCO AND MICROSOFT TECHNOLOGIES

Anthony Chiarella

ISBN: 1-4018-9946-3

ISBN-13: 978-1-4018-9946-2

608 pp, 7-3/8" x 9-1/2", SC, 1-Color, ©2004



Learn to use two of the most popular technologies in the industry! This new book teaches how to internetwork with Windows 2000 and Cisco routers. Written in a manner that either the beginner or advanced technician can relate to, the book examines five key areas: network basics, protocols, internetworking, network services and management, and wide area networks. The coverage of networking concepts, makes this an excellent resource and "must have" for any student learning either Cisco routers or Windows 2000.

## CONTENTS

Part I: Network Basics. The Role of a Network. Fundamentals of Networking. Open Systems Interconnect Reference Model. Operating Systems. Introduction to Cisco Routers. Part II: Protocols. Ethernet, Token Ring, and Project 802 Standards. Network Protocols (Software). Network Addressing. Routing Protocols. Part III: Internetworking. Internetworking with Cisco Devices. Building a Windows 2000 Network. Supporting a Windows 2000 Network. LAN Switching. Part IV: Network Services and Management. DHCP. DNS. Security. Disaster Prevention and Recovery. Data Storage. Troubleshooting. Part V: Wide Area Networks. Wide Area Network Connectivity.

## SUPPLEMENTS

**Instructor's Guide on CD-ROM** ISBN: 1-4018-6174-1

**Lab Manual** ISBN: 1-4018-5959-3



# VIRTUAL MACHINES COMPANION

Ted Simpson

ISBN: 1-4283-2194-2

ISBN-13: 978-1-4283-2194-6

144 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



Virtual Machines are software programs that allow more than one operating system to run on a single computer. They provide a completely isolated virtual environment within a computer that can run a separate OS. The two major virtual machine software programs are Novell's VMWare product and Microsoft's Virtual PC product. Both are freely available on the Web. This book provides a clear introduction to each program, and detailed mechanical information about working with each. The text begins with overview of virtual computing, its history and its impact, and then provides an overview of the all the products that are available with the features of each one, to help readers choose the right one.

This is a straightforward overview of virtual computing that can serve as a supplement in Networking courses or used as a standalone text for programs that offer a Virtual Computing course. This companion book is also written so it can be used by an average computer user at home to learn about virtualization software products. Home computer users can download free virtualization software from the Internet, install the software on their computer, and then use the software to perform essential tasks, such as creating and configuring virtual machine environments and running other operating systems on their desktop.

## CONTENTS

The Virtual Computing World. Working with VMWare Workstation and Server. Working with Microsoft Virtual PC and Server.

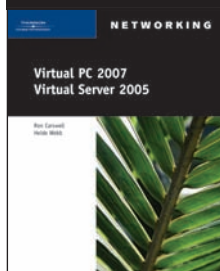
# GUIDE TO MICROSOFT® VIRTUAL PC 2007 AND VIRTUAL SERVER 2005

Ron Carswell & Heide Webb

ISBN: 1-4283-2195-0

ISBN-13: 978-1-4283-2195-3

400 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



This book emphasizes the use of the latest Microsoft virtual computing software products: Windows Vista, Virtual PC 2007 and Virtual Server 2005. Readers are introduced to the new software programs, and then guided step-by-step through the construction of these two virtual environments. The book works in tandem with the MCSE/MCSA Guide series, helping readers construct virtual environments for the various activities in this series of books. The book also works in a standalone capacity with comprehensive activities that give students a strong foundation for carrying out operating system tasks.

## CONTENTS

Overview of Virtual Technology. Managing Virtual PC. Installing Operating Systems in Virtual PC 2007. Managing Advanced Virtual PC Options. Managing Virtual Networks. Implementing the dovercorp.com Network. Implementing RAID Storage. Installing Microsoft Virtual Server 2005. Implementing the classroom.com Network. Implementing Advanced Virtual Concepts. Installing Fedora Core 6.

## SUPPLEMENT

**Instructor's Resource on CD-ROM** ISBN: 1-4283-2198-5

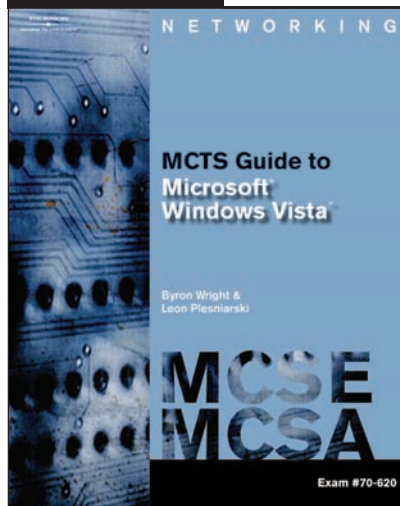
# MCTS GUIDE TO MICROSOFT® WINDOWS VISTA®

Byron Wright & Leon Plesniarski

ISBN: 1-4188-3726-1

ISBN-13: 978-1-4188-3726-6

850 pp, 8-1/2" x 11", HC, 4-Color, ©2008



## ABOUT THE AUTHORS

**Byron Wright** is a Partner in Conexion Networks, a computer consulting firm that implements and maintains networks, e-mail systems, and security for a wide variety of organizations. In addition to possessing a Bachelor of Commerce degree (B. Comm), Wright is a Microsoft Certified Trainer (MCT), a Certified Novell Instructor (CNI), Microsoft Certified Systems Engineer (MCSE), a Certified Novell Engineer (CNE), and Certified Linux Professional (CLP).

**Leon Plesniarski** is a Senior Solutions Architect who has been building with Microsoft products since 1984. He graduated with a BSc in Computer and Electrical Engineering from the University of Manitoba, and has since supplied Microsoft and Novell teaching services for the University of Manitoba Continuing Education Division as a Microsoft Certified Trainer (MCT), Certified Novell Instructor (CNI), Microsoft Certified Systems Engineer (MCSE), and Certified Novell Engineer (CNE). He has worked on developing new A+ certification course material on computer hardware and operating systems, focusing attention on details to enable students to pass certifications and gain employment or job upgrades.

Here is a complete guide to deploying and managing Windows Vista® that is suitable for IT professionals and students alike! By 2008, Windows Vista®, the newest desktop operating system from Microsoft®, will be installed on millions of computers. It is anticipated that the numbers will only grow from there. This teaching textbook provides all the information users need to successfully migrate to the Windows Vista® program and immediately begin deriving benefits from it. Readers will learn all the differences between the new system and the old, including Vista's additional functionalities, and its advanced security features. Coverage assumes only a basic knowledge of computers and goes through the entire learning process in a logical, organized manner to ensure that all information is easily understood. The Hands-on Activities and Case Projects work with the content to help students practice new skills, and review questions and key terms reinforce important information. With the new section devoted to troubleshooting, this text also doubles as a manual that professionals can take on the job with them.

## KEY FEATURES

- offers all the critical information students need to successfully move into a role as an IT professional and support Windows Vista in a business environment
- maps completely to Microsoft® certification Exam #70-620
- case projects incorporates real world experiences from IT professionals to make the coverage realistic and meaningful beyond just a list of technical features, and Review questions test readers understanding of critical information
- explains complex concepts in straightforward terms for a smooth and problem-free transition to Windows Vista

## CONTENTS

Introduction to Windows Vista. Installing Windows Vista. Using the System Utilities. Managing Disks. Managing File Systems. User Management. Windows Vista Security Features. Networking. Remote Access. Using Productivity and Media Tools. Performance Tuning. Application Support. Disaster Recovery and Troubleshooting. Enterprise Computing.

## SUPPLEMENTS

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Michael Palmer

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### CONTENTS

Intro to Windows Server 2008. Networking Models. Windows Server 2008 Roles. Installation and Upgrade. Configuration Tools and Techniques. Active Directory. Server Management. File Systems. Data Storage Devices. Network Services. Remote Access (RAS), Virtual Private Network (VPN), and Terminal Services. DHCP, DNS, WINS, QoS, and Internet Information Services (IIS). Security. Virtual Server Capabilities

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**LabSim** ISBN: 1-4239-0283-1

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Course Technology

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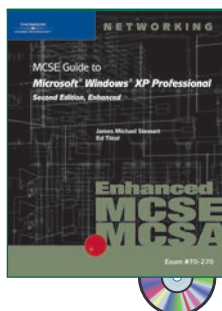
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Ted Simpson, Dan DiNicolo,  
James Michael Stewart, & Ed Tittel

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### CONTENTS

Introduction to Windows and Networking. Installing XP Professional. Managing Network Protocols. Adding and Configuring Devices and Drivers. Managing Disks and Data Storage. Creating and Managing User and Computer Accounts. Creating and Managing Domain User and Group Accounts. Implementing and Using Group Policy. Managing File System Access and Security. Implementing and Managing Network Printing. Windows Security Features. Implementing Terminal Services and Remote Access. Performing Network Administrative Tasks. Administering Web Access. Implementing and Managing Backups and Disaster Recovery. Appendices. Practice Exams.

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Introduction to Exchange Server 2003. Installing and Configuring Exchange Server 2003. Managing Recipients. Configuring Outlook and Outlook Web Access. Managing Addresses. Public Folders. Configuring and Managing Exchange Server. Managing Routing and Internet Connectivity. Managing Data Storage and Hardware Resources. Securing Exchange Server 2003. Backup and Recovery of Exchange Server 2003. Troubleshooting Connectivity. Monitoring and Troubleshooting the Server. Upgrading to Exchange Server 2003. Appendix.

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Dan DiNicolo, & Brian McCann

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720 pp, ©2005, ISBN: 0-619-21752-9

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Jason Eckert, M. John Schitka, & Brian McCann

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608 pp, ©2005, ISBN: 0-619-21753-7

### CONTENTS

Networking Overview Configuring Network Protocols/TCP/IP Architecture. Dynamic Host Configuration Protocol. Managing and Monitoring DHCP. Name Resolution. Domain Name System. Windows Internet Naming Service. Securing Network Traffic Using IPSec. Remote Access. Internet Authentication Service. Routing. Security Templates. Troubleshooting Windows Server 2003 Networks. Appendices. New Tear-Out Practice Exam.

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## 70-293: MCSE Guide to Planning a Microsoft® Windows® Server 2003 Network, Enhanced

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*Maps completely to the objectives for MCSE Exam #70-293*  
712 pp, ©2005, ISBN: 0-619-21754-5

### CONTENTS

Overview of Planning a Windows Server 2003 Network. TCP/IP Architecture. Planning Network Data Flow. Planning and Configuring Routing and Switching. Planning, Configuring, and Troubleshooting DHCP. Planning, Configuring, and Troubleshooting WINS. Planning a DNS Strategy. Managing and Troubleshooting DNS. Planning and Managing Certificate Services. Planning and Managing IP Security. Planning Network Access. Planning and Implementing Server Availability and Scalability. Planning Server and Network Security. Problem Recovery. Appendices. New Tear-Out Practice Exam  
**Instructor's Resource** ISBN: 1-4188-3648-6  
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Mike Aubert, Brian McCann

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736 pp, ©2005, ISBN: 0-619-21755-3

### CONTENTS

Introduction to Active Directory. Name Resolution and DNS. Active Directory Design Philosophy. Active Directory Architecture. Active Directory Logical Design. Active Directory Physical Design. Active Directory Replication. Active Directory Operations Masters. Active Directory Authentication and Security. Managing Users, Groups, Computers, and Resources. Group Policy for Corporate Policy. Deploying and Managing Software with Group Policy. Monitoring and Optimizing Active Directory. Disaster Recovery. Appendices. New Tear-Out Practice Exam.  
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Jay Adamson

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639 pp, ©2004, ISBN: 0-619-12026-6

### CONTENTS

The Assessment Stage. Developing the Active Directory Infrastructure Design. Developing the Network Services Design. Designing the Logical Components. Name Resolution. Remote Access and Address Management. Service Sizing and Placement. The Physical Design. Appendix.  
**Instructor's Resource** ISBN: 0-619-12048-7

## 70-298: MCSE Guide to Designing Security for Microsoft® Windows® Server 2003 Network

Byron Wright

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### CONTENTS

Designing a Secure Network Framework. Securing Servers Based on Function. Designing a Secure Public Key Infrastructure. Securing the Network Management Process. Securing Network Services and Protocols. Securing Internet Information Services. Securing VPN and Extranet Communications. Securing Active Directory. Securing Network Resources. Securing Network Clients. Appendix.  
**Instructor's Resource** ISBN: 0-619-12046-0

## 70-299: MCSE Guide to Implementing and Administering Security in a Microsoft® Windows® Server 2003 Network

Diane Barrett & Bill Ferguson

*Maps completely to the objectives for MCSE Exam #70-299 and includes free MeasureUp CoursePrep test preparation software on CD-ROM*

580 pp, ©2005, ISBN: 0-619-21713-8

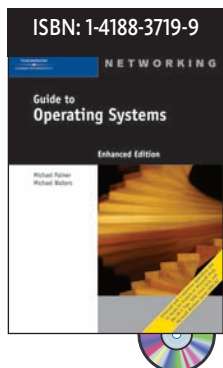
### CONTENTS

Introduction to Windows 2003 Security. Planning and Configuring Security Policies. Deploying and Managing Security Policies. Troubleshooting Security Policies. Planning and Deploying Patch Management. Managing and Troubleshooting Patch Management Infrastructure. Planning and Deploying Security for Network Communications. Troubleshooting IPsec Policies. Planning and Deploying Public Key Infrastructure (PKI). Planning and Deploying Authentication for Remote Access Users. Planning and Configuring Security for Wireless Networks. Troubleshooting PKI, Remote Access, and Wireless Policies. Advanced Problem Resolution. Appendix.  
**Instructor's Resource** ISBN: 0-619-21714-6



# GUIDE TO OPERATING SYSTEMS, ENHANCED EDITION

Michael Palmer & Michael Walters



ISBN: 1-4188-3719-9

ISBN-13: 978-1-4188-3719-8

720 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2007

*Guide to Operating Systems, Enhanced Edition* provides the information needed to understand and support the desktop, server, and network operating systems in use today — Windows XP, Windows Vista (the latest Windows version) Windows Server 2003, Windows Server 2003 R2, Windows 2000, SUSE Linux, Fedora Linux, Red Hat Enterprise Linux, Mac OS X (Panther and Tiger), and NetWare. Major concepts include operating system theory, installation, upgrading, configuring (operating system and hardware), file systems, security, hardware options, storage, resource sharing, network connectivity, maintenance, and troubleshooting. This book combines theory and technical practice for a stronger understanding, and it is great for training technical professionals who support multiple operating systems. Includes Fedora Core 1 Linux, Publisher's Edition.

## CONTENTS

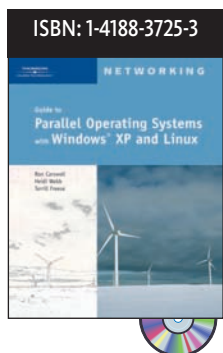
Operating System Theory. PC Operating System Hardware. File Systems. Installing and Upgrading Operating Systems. Configuring Input and Output Devices. Using and Configuring Storage Devices. Modems and Other Communication Devices. Network Connectivity. Resource Sharing Over a Network. Standard Operating and Maintenance Procedures. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 0-619-21358-2

# GUIDE TO PARALLEL OPERATING SYSTEMS WITH WINDOWS® XP AND LINUX

Ron Carswell, Heidi Webb & Terrill Freese



ISBN: 1-4188-3725-3

ISBN-13: 978-1-4188-3725-9

640 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2007

*Guide to Parallel Operating Systems with Windows® XP and Linux* introduces the key features of computer operating systems. It assumes that the students have previously used a personal computer with the Windows or Linux operating systems. This book uses a unique approach for the presentation of operating system concepts. Each topic will first be presented conceptually. Then the concepts will be demonstrated on both of the two operating systems in parallel. This parallel structure will be enabled by using Microsoft Virtual PC 2004. Students will be able to instantly switch between the two operating systems to complete the numerous hands-on activities. Includes a free copy of RedHat on CD-ROM.

## CONTENTS

Hardware Components. Software Components. File Systems. Editors. Directory Commands. Files and File Attributes. GUI Navigation. Command Line Applications. Task/Session Management. Appendix A: Number Systems.

## SUPPLEMENTS

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**LabSim for Linux+** ISBN: 1-4188-3525-0

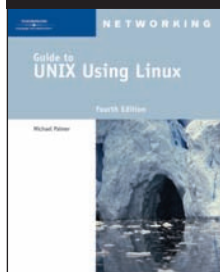
# A GUIDE TO UNIX USING LINUX, FOURTH EDITION

Michael Palmer

ISBN: 1-4188-3723-7

ISBN-13: 978-1-4188-3723-5

704 pp, 7 3/8" x 9 1/4", SC, 1-Color, ©2008



Written with a clear, straightforward writing style and packed with step-by-step projects for direct, hands-on learning, *Guide to UNIX Using Linux, Fourth Edition* is the perfect resource for learning UNIX and Linux from the ground up. Through the use of practical examples, end-of-chapter reviews, and interactive exercises, novice users are transformed into confident UNIX/Linux users who can employ utilities, master files, manage and query data, create scripts, access a network or the Internet, and navigate popular user interfaces and software. The updated fourth edition incorporates coverage of the latest versions of UNIX and Linux, including new versions of Red Hat, Fedora, SUSE, and Ubuntu Linux. A new chapter has also been added to cover basic networking utilities, and several other chapters have been expanded to include additional information on the KDE and GNOME desktops, as well as coverage of the popular OpenOffice.org office suite. With a strong focus on universal UNIX and Linux commands that are transferable to all versions of Linux, this book is a "must-have" for anyone seeking to develop their knowledge of these systems.

## CONTENTS

The Essence of Unix and Linux. Exploring the Unix/Linux file systems and file security. Mastering Editors. Unix/Linux File Processing. Advanced File Processing. Introduction to Shell Script Programming. Advanced Shell Programming. Exploring the Unix/Linux Utilities. Exploring the Network Utilities. PERL and CGI Programming. Developing Unix/Linux Applications in C and C++. The X Windows System. How to Access a Unix/Linux Operating. Syntax Guide to Unix/Linux Commands. How to install Fedora and Apache Web Server. Unix/Linux Variants. Unix/Linux Security: Network and Internet Connectivity.

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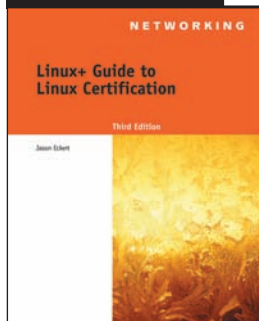
# LINUX+ GUIDE TO LINUX CERTIFICATION, THIRD EDITION

Jason Eckert & M. John Schitka

ISBN: 1-4188-3721-0

ISBN-13: 978-1-4188-3721-1

800 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2012



## SUPPLEMENT

**Lab Manual** ISBN: 1-111-54155-8

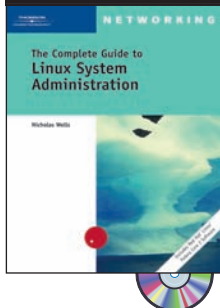
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Nick Wells

ISBN: 0-619-21616-6

ISBN-13: 978-0-619-21616-0

869 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2004



This book has been written for one of the most current Linux Operating Systems, Red Hat Fedora. Nick Wells has extensive experience with Linux and the Linux Professional Institute and has created this hands-on learning tool that will maximize success on the Red Hat Certified Technician (RHCT) exam while also preparing them for the SAIR/GNU Linux Certified Administrator (LCA) Certification. Includes a free copy of Fedora Linux Core 2 on CD-ROM.

## CONTENTS

Introducing Linux. Exploring the Desktop. Using the Shell. Understanding Users and File Systems. Understanding Text Processing. Managing Processes. Using Network Clients. Installing Linux. Understanding System Initialization. Managing Software Packages and File Systems. Managing Users. Configuring Networks. System and Kernel Management. Writing Shell Scripts. Advanced Topics and Troubleshooting. Appendices.

## SUPPLEMENTS

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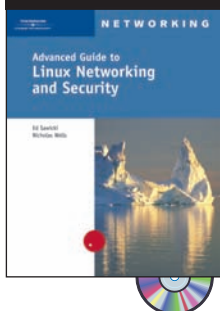
# ADVANCED GUIDE TO LINUX NETWORKING AND SECURITY

Ed Sawicki & Nick Wells

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ISBN-13: 978-1-4188-3539-2

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Linux is the one of the fastest growing operating systems today. As the number of companies implementing Linux increases, so too does the rapidly-developing need for skilled users, developers and administrators. *Advanced Guide to Linux Networking and Security* was designed especially for individuals who want to move beyond just the basics of Linux installation and administration into a broader study of the many security issues surrounding this operating system. Includes a free copy of Red Hat Linux Fedora Core 3 on CD-ROM.

## CONTENTS

Networking Fundamentals. Configuring Basic Networking. Configuring Client Services. Using Simple Network Services. Configuring File-Sharing Services. Configuring Major Network Services. Security, Ethics, and Privacy. File Security. User Security. Cryptography. Network Security Fundamentals. Security Tools. Appendix.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4188-3651-6

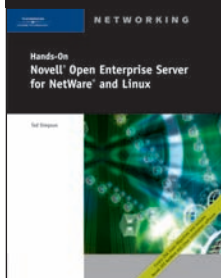
# HANDS-ON NOVELL® OPEN ENTERPRISE SERVER FOR NETWARE® AND LINUX

Ted L. Simpson

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ISBN-13: 978-1-4188-3531-6

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## CONTENTS

Introduction to Network Operating Systems. Installing and Working with SUSE Linux. Planning and Implementing eDirectory Services. NetWare Installation. Working with Network File Systems. Creating and Managing Users and Groups. Managing File System Security. Managing eDirectory Security. Implementing and Maintaining Network Printing. Managing Windows Desktop Environments. Managing Linux Desktop Environments. Implementing Virtual Office Services. Installing and Configuring Web Services. Implementing Group-Wise. Appendix A: CNA Examination Objectives.

## SUPPLEMENT

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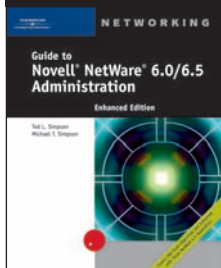
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Ted L. Simpson & Michael T. Simpson

ISBN: 0-619-21543-7

ISBN-13: 978-0-619-21543-9

1,046 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2004



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Networking Basics. Microcomputer Hardware. Designing the Network. Planning the eDirectory Directory Tree. Planning the Network File System. Installing NetWare 6. Creating the eDirectory Tree Structure. Creating the Network File System. Managing Users, Groups, and Login Security. Managing Trustee Assignments and File Attributes. Implementing and Managing Network Printing. Managing the User Desktop Environment. Accessing and Managing the Network with Novell's OneNet Utilities. Implementing and Securing Network Services. Implementing Messaging Services. Appendices.

## SUPPLEMENT

**Instructor's Resource** ISBN: 0-619-21544-5

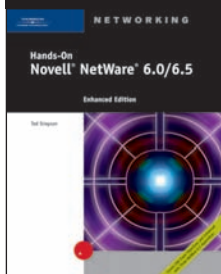
# HANDS-ON NOVELL® NETWARE® 6.0/6.5, ENHANCED EDITION

Ted L. Simpson

ISBN: 0-619-21545-3

ISBN-13: 978-0-619-21545-3

702 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2004



## CONTENTS

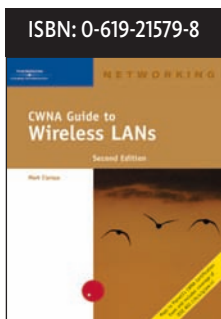
Introduction to Network Operating Systems. Installing NetWare 6.5. Implementing the NetWare File System. Implementing eDirectory. Creating eDirectory Objects. NetWare File System Security. Managing eDirectory Security and Operations. Implementing and Maintaining NetWare Printing. Managing Windows Desktop Environments for NetWare. Implementing Virtual Office Services. Implementing and Securing Web Services. Installing and Working with SUSE Linux. Managing Linux Environments. Implementing Novell Nterprise Services for Linux. Appendices.

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Mark Ciampa



ISBN: 0-619-21579-8

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## CONTENTS

It's a Wireless World. Wireless LAN Devices and Standards. How Wireless Works. IEEE 802.11 Physical Layer Standards. IEEE 802.11 Medium Access Control and Network Layer Standards. Planning and Building a Wireless LAN. Conducting a Site Survey. Wireless LAN Security and Vulnerabilities. Implementing Wireless LAN Security. Managing a Wireless LAN. Network Settings and Wireless LAN Troubleshooting. Personal, Metropolitan, and Wide Area Networks. Appendices.

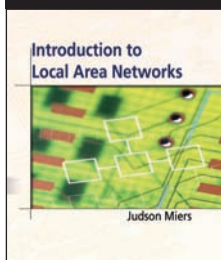
## SUPPLEMENTS

**Instructor's Resource** ISBN: 0-619-21601-8

**Lab Manual** ISBN: 1-4188-3538-2

# INTRODUCTION TO LOCAL AREA NETWORKS

Judson Miers



ISBN: 1-4180-0058-2

ISBN-13: 978-1-4180-0058-5

512 pp, 7-3/8" x 9-1/4", SC w/CD-ROM, 1-Color, ©2006

Readers of this book will learn about Local Area Network (LAN) basics through the analysis of case studies. A back-of-book CD-ROM that contains PowerPoint™ Presentations gives detailed examples of what a business presentation for each case study would look like.

## CONTENTS

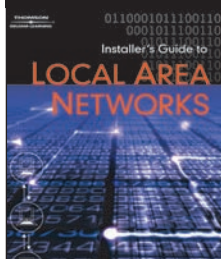
Getting Started. Laying the Foundation. A Review of the OSI Model. Network Basics. Asset Management. Business and Technology Analysis. Computer Professionals Unlimited, Inc. as an Organization. Target Organizations. Cross Creek Construction. Red Bridge School District. CPU's Network. What Happens Next. Performing the Installation. Checking Network Health. Planning the Next Upgrade. Choosing the Right Firm. Appendices. Glossary.

## SUPPLEMENT

**Instructor's Manual** ISBN: 1-4180-0059-0

# INSTALLER'S GUIDE TO LOCAL AREA NETWORKS

Buddy Shipley



ISBN: 0-7668-3374-7

ISBN-13: 978-0-7668-3374-6

288 pp, 7-3/8" x 9-1/4", SC, 4-Color, ©2004

This all-inclusive, general reference uses a remarkably entertaining style to convey a wealth of practical information and detailed technical specifications.

## CONTENTS

Preface. LAN Overview. A Brief History of LANs. Standards and Organizations. Data Elements. LAN Technologies. Classic Ethernet. Token Passing Rings. Contemporary LAN Standards. Internetworking Devices: Repeaters and Hubs. Internetworking Devices: Bridges and Layer 2 Switches. Internetworking Devices: Routers and Layer 3 Switches. Cable and Cabling Standards. IP Addressing and Subnetting. Appendix A: Electromagnetic Spectrum: Bandwidth and Frequency. Appendix B: IEEE LAN Committees. Appendix C: Standard Data Rates. Online References. Bibliography. Glossary.

## SUPPLEMENT

**Instructor's Manual** ISBN: 0-7668-3375-5



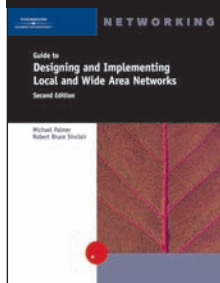
# GUIDE TO DESIGNING AND IMPLEMENTING LOCAL AND WIDE AREA NETWORKS, SECOND EDITION

Michael Palmer

ISBN: 0-619-12122-X

ISBN-13: 978-0-619-12122-8

612 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2007



*Guide to Designing and Implementing Local and Wide Area Networks, Second Edition* offers a unique approach to learning about network design, by providing both the theories behind networks and a practical hands-on method of putting those theories to work. With extensive end-of-chapter exercises, and case studies, this book prepares readers to design a network from the ground up using real-world scenarios.

## CONTENTS

LAN/WAN Networking: An Overview. LAN/WAN Interconnectivity. Physical Transmission Options. Network Transmission Equipment. LAN Protocols. TCP/IP Past, Present, and Future. WAN Transport Methods. ATM Technologies. Wireless Technologies. Integrating Voice, Video, and Data. LAN and WAN Design: Putting it All Together. Appendix A: Network Equipment Vendors. List of Acronyms.

## SUPPLEMENT

**Instructor's Resource** ISBN: 0-619-12123-8

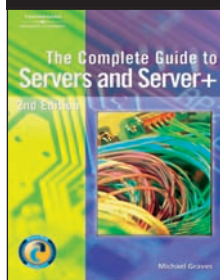
# THE COMPLETE GUIDE TO SERVERS AND SERVER+, SECOND EDITION

Michael Graves

ISBN: 1-4180-2023-0

ISBN-13: 978-1-4180-2023-1

500 pp, 8-1/2" x 11", HC, 2-Color, ©2007



*The Complete Guide to Servers and Server+* is more than just an exam guide to the CompTIA Server+ Exam; it's a blueprint for a career in server management. Going beyond the minimum requirements for the exam, this book takes the approach that a good server manager should know the ins and outs of building a server from scratch. With this emphasis throughout the book, *The Complete Guide to Servers and Server+* is an essential part of any future and current network manager's library.

## CONTENTS

Just What is a Server, Anyway. Filling the Bill. On Building Your Own Server. A Look at Network Operating Systems. Selecting the Right Motherboard. Selecting the CPUs. Memory Requirements for Servers. Managing Server I/O. Understanding Hard Disk Drives. The Many Face of SCSI. Hardware Fault Tolerance. Data Backup and Recovery. Installation and Upgrading. Creating and Using a Server Baseline. Documentation and Scheduled Maintenance. Basic Troubleshooting Procedures.

## SUPPLEMENTS

**e.resource** ISBN: 1-4180-2025-7

**Lab Manual** ISBN: 1-4180-2024-9

# SECURITY+ GUIDE TO NETWORK SECURITY FUNDAMENTALS, THIRD EDITION

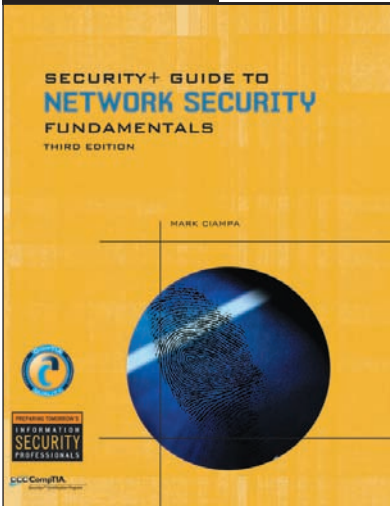
NEW!

Mark Ciampa

ISBN: 1-4283-4066-1

ISBN-13: 978-1-4283-4066-4

640 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2010



## ABOUT THE AUTHOR

**Mark Ciampa** is an Assistant Professor of Computer Information Systems at Western Kentucky University in Bowling Green, Kentucky and is a PhD student at Indiana State University in Digital Communications. Prior to this he was an Associate Professor and the Director of Academic Computing at Volunteer State Community College in Gallatin, Tennessee. Mark has worked in the IT industry as a computer consultant for the U.S. Postal Service, the Tennessee Municipal Technical Advisory Service, and the University of Tennessee, and has taught in higher education for over 25 years. He is the author of several Course Technology books.

Now in its third edition, the best-selling *SECURITY+ GUIDE TO NETWORK SECURITY FUNDAMENTALS* provides the most up-to-date industry information, reflecting the changes in security that have occurred since the most recent CompTIA Security+ objectives were created. The book covers all of the new CompTIA Security+ 2008 exam objectives and maps to the new Security+ 2008 exam. This updated edition features many all-new topics, including topics new to the CompTIA exams like cross site scripting, SQL injection, rootkits, and virtualization, as well as topics of increasing importance in the industry as a whole, like the latest breeds of attackers, Wi-Fi Protected Access 2, and Microsoft Windows Vista security.

## KEY FEATURES

- Virtual attack-and-defend computer labs allow readers to set up and connect multiple virtual computers within a single computer for hands-on experience with defending against network attacks.
- "Today's Attacks and Defenses" open each chapter, highlighting real-life descriptions of some of the most current trends in attacks and defenses.
- Companion website offers updated security labs, newsfeeds, security blogs, videos and other supplemental resources.
- Numerous illustrations of security vulnerabilities, attacks, and defenses help readers visualize security elements, theories, and concepts.
- Hands-on projects are provided in each chapter to provide practical security software and hardware implementation experience, covering Microsoft Windows Vista and Linux operating systems, as well as software downloaded from the Internet.
- Two new lab manuals, one using Microsoft Windows Vista and Microsoft Windows Server 2008 and one based on virtualization, offer additional resources and opportunities for learning.

## CONTENTS

1. Introduction to Security. SYSTEMS SECURITY. 2. System Threats and Risks. 3. Protecting Systems. NETWORK SECURITY. 4. Network Vulnerabilities and Attacks. 5. Network Defenses. 6. Wireless Network Security. ACCESS CONTROL. 7. Access Control Fundamentals. 8. Authentication. ASSESSMENTS AND AUDITS. 9. Performing Vulnerability Assessments. 10. Conducting Audits. CRYPTOGRAPHY. 11. Basic Cryptography. 12. Cryptographic Protocols and Public Key Infrastructure. ORGANIZATIONAL SECURITY. 13. Business Continuity Planning and Procedures. 14. Policies and Legislation.

## SUPPLEMENTS

**Instructor's Resource on CD-ROM** ISBN: 1-4283-4071-8

**Lab Manual** ISBN: 1-4283-4067-X

# SECURITY AWARENESS: APPLYING PRACTICAL SECURITY IN YOUR WORLD, THIRD EDITION

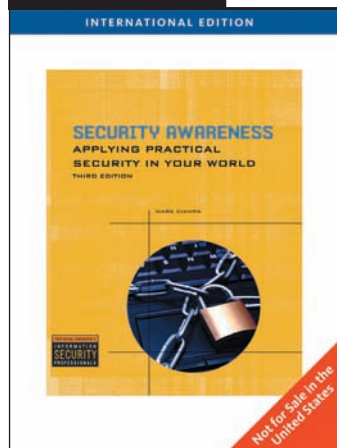
Mark Ciampa

**NEW!**

ISBN: 1-4354-9668-X

ISBN-13: 978-1-4354-9668-2

304 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2010



Security Awareness, International Edition is a successful, brief, non-technical introduction to computer security. With computer security concerns reaching into so many aspects of our daily lives, everyone who owns a home computer is at risk. This book covers all of the need-to-know information about staying secure including maintaining a secure environment and how to avoid security attacks. The book also compliments other Information Technology areas such as networking and certifications including CompTIA's Network+ and Security+ exams.

## KEY FEATURES

- Provides a broad, non-technical foundation of computer security for all users, with discussion of different types of security attacks and defenses everyone can use.
- Covers topics such as why security is important, how to create and maintain a secure environment, and what to do when security is breached.
- Updates include an increased number of Hands-on Projects, additional ethics coverage, technology updates, and an increased focus on the end-user.
- Features extensive learning tools, including Review Questions, Hands-On Projects, and Case Projects, which allow students to practice skills as they are learned.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4354-5415-4

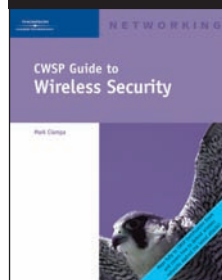
# CWSP GUIDE TO WIRELESS SECURITY

Mark Ciampa

ISBN: 1-4188-3637-0

ISBN-13: 978-1-4188-3637-5

580 pp, 7-3/8" x 9-1/4", HC, 1-Color, ©2007



*CWSP Guide to Wireless Security* is a hands-on guide to defending wireless networks against attacks. This book prepares students for the Certified Wireless Security Professional (CWSP) certification from Planet3. Focusing on IEEE 802.11a/b/g/pre-n wireless local area networks, this book provides extensive coverage of the latest wireless attack tools and defenses, including IEEE 802.11i, WPA, WPA2, and WIPS, along with how to design and manage a secure wireless LAN. Material is reinforced with hands-on projects at the end of each chapter.

## CONTENTS

Foundations of Wireless Security. Wireless LAN Vulnerabilities. Passive Wireless Discovery. Active Wireless Attacks. Wireless Security Models. Designing a Secure Wireless Network. Secure Wireless Authentication. Secure Wireless Transmissions. Managing the Wireless Network. Wireless Security Policy.

## SUPPLEMENT

**Instructor's Guide** ISBN: 1-4239-0099-5

# GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, FOURTH EDITION

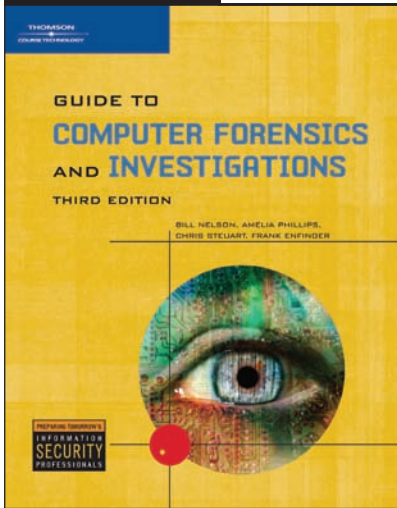
Bill Nelson, Amelia Phillips, Christopher Steuart & Frank Enfinger

**NEW!**

ISBN: 1-4354-9883-6

ISBN-13: 978-1-4354-9883-9

720 pp, 7-3/8" x 9 1/4", PB, 1-Color, ©2010



## ABOUT THE AUTHORS

**Bill Nelson**, from Maple Valley, Washington, has been a computer forensics investigator for a Fortune 50 company for over six years and has developed high-tech investigation programs for professional organizations and colleges. His previous experience includes AFIS software engineering and reserve police work.

**Amelia Phillips** is a graduate of the Massachusetts Institute of Technology and has worked for over 20 years in government, private industry, and academics. She has designed Distance Education classes, E-Commerce, and Computer Forensics programs at several community colleges. Amelia resides in Seattle, Washington and in 2004 was named a Fulbright Scholar.

**Christopher Steuart** is one of the founders and the staff attorney for iforensics.com. Previously, he was an Information Security Officer for a Fortune 50 company and the United States government. Chris resides in Seattle, Washington.

**Frank Enfinger**, from Suquamish, Washington, is a tenured faculty member at North Seattle Community College and a Computer Forensics Specialist with a local police department. He holds a degree in Computer Science.

Master the skills necessary to launch and complete a successful computer investigation with the updated fourth edition of this popular book, *GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS*. This resource guides readers through conducting a high-tech investigation, from acquiring digital evidence to reporting its findings. Updated coverage includes new software and technologies as well as up-to-date reference sections, and content includes how to set up a forensics lab, how to acquire the proper and necessary tools, and how to conduct the investigation and subsequent digital analysis. It is appropriate for students new to the field, or as a refresher and technology update for professionals in law enforcement, investigations, or computer security. The book features free downloads of the latest forensic software, so readers can become familiar with the tools of the trade.

## KEY FEATURES

- Updated to include Vista.
- Expanded discussion on Microsoft's NTFS and MFT.
- Advance NTFS data carving techniques.
- Updated tools and applications references for the computing forensics examiner.
- Updated reference sections for computing forensics resources.
- STEP-BY-STEP EXPLANATIONS: Provides explanations on how to use the most popular forensic tools.
- EXPANDED DISCUSSION ON ETHICS, COMPUTER FORENSICS AND THE LAW: Provides specific guidance on dealing with civil and criminal matters relating to the law and technology.
- COMPUTER FORENSICS OPERATIONS METHODOLOGIES: Discussions on how to manage a corporate computer forensics operation in today's business environment.
- EXTENSIVE LEARNING TOOLS: Review Questions, Hands-On Projects, and Case Projects that allow readers to practice skills they have learned.

## CONTENTS

1: Computer Forensics and Investigation Processes. 2: Understanding Computing Investigations. 3: The Investigator's Office and Laboratory. 4: Data Acquisitions. 5: Processing Crime and Incident Scenes. 6: Working with Windows and DOS Systems. 7: Current Computer Forensics Tools. 8: Macintosh and Linux Boot Processes and File Systems. 9: Computer Forensics Analysis. 10: Recovering Graphics Files. 11: Virtual Machines, Network Forensics, and Live Acquisitions. 12: E-mail Investigations. 13: Cell Phone and Mobile Device Forensics. 14: Report Writing for High-Tech Investigations. 15: Expert Testimony in High-Tech Investigations. 16: Ethics and High-Tech Investigations. Appendix A: Certification and Testing Processes for Computer Forensics. Appendix B: Computer Forensics References. Appendix C: Computer Forensics Lab Configuration. Appendix D: DOS-Based Computer Forensics Tools.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 1-4354-9884-4

**Lab Manual** ISBN: 1-4354-9885-2

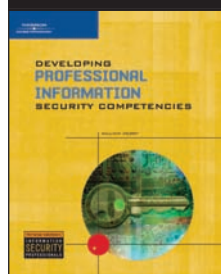
# DEVELOPING PROFESSIONAL INFORMATION SECURITY COMPETENCIES

William Perry

ISBN: 1-4180-4204-8

ISBN-13: 978-1-4180-4204-2

448 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2009



*Developing Professional Information Security Competencies* is the perfect introductory text for students who want to pursue a career in information security. This innovative book outlines the concepts, knowledge and skills needed to thrive in what is projected to be one of the next the decade's fastest growing professional occupations, information security.

The content focuses on what IT security professionals need know to protect an organization's critical information assets in today's asymmetric threat environment. The book focuses upon developing fundamental information security concepts that need to be applied to meet the highest professional and industrial information security standards.

Students will develop a comprehensive understanding of information security and why it is vital to an organization's success. Aspiring information security specialists will obtain the technical knowledge they need to pursue a solid career path in the field of IT Security.

The depth and breadth of the knowledge and skills contained in the text include a cross-linking of Security+ certification domains and global ISO.

## CONTENTS

Why Do Information Assets Need to be Protected? What Are Information Security Policies and Why Are They Needed? How Are the Risks Faced by and Organization's Information System Determined? What Do Security Professionals Needs to Know about Controlling Access to Information Resources? What is included in the Logical and Physical Topology of a Secure Network Infrastructure? What Security Considerations are Associated with Network Equipment, Media, and Software? What Security Concerns are Associated with E-mail and Instant Messaging? What is Cryptography and How Is It Used to Protect Information Assets? What is Public Key Infrastructure and How Does It Improve Security? Wireless Security: What Must be Considered? What is Intrusion Detection? What Roles Do Disaster Recovery, Forensics and Business Continuity Play in Information Security? How Do Policies, Corporate Governance and Compliance Issues Relate to Information Security? How Does Human Resources, Training and Documentation Support Information Security? How Do You Build a Career in Information Systems Security?

## SUPPLEMENT



**e.resource** ISBN: 1-4180-4205-6



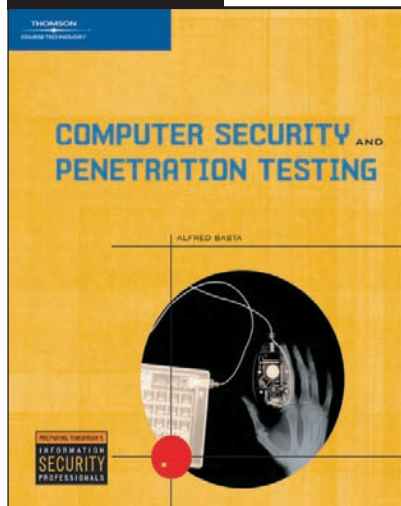
# COMPUTER SECURITY AND PENETRATION TESTING

Alfred Basta & Wolf Halton

ISBN: 1-4180-4826-7

ISBN-13: 978-1-4180-6733-5

608 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



## ABOUT THE AUTHORS

**Alfred Basta, Ph.D.**, is a Professor of Mathematics, Cryptology and Information Security. He is a member of the Editorial Board for the Norwich University Journal of Information Assurance, and conducts professional speaking engagements on internet security and networking.

**Wolf Halton, AB, MSc**, is an Instructor in Information Security. He currently serves as the CEO of Halton Technical Services, providing security consulting, and project management for various clients. Mr. Halton is a professional speaker on the topics of internet security.

This book is designed to give readers of all backgrounds and experience levels a well-researched and engaging introduction to the fascinating realm of network security. With real-world examples that reflect today's most important and relevant security topics, *Computer Security and Penetration Testing* will address how and why people attack computers and networks, so that readers can be armed with the knowledge and techniques to successfully combat hackers. Because the world of information security changes so quickly and is often the subject of much hype, this book also aims to provide a clear differentiation between hacking myths and hacking facts. Straightforward in its approach, this valuable resource teaches the skills needed to go from hoping a system is secure to knowing that it is.

## KEY FEATURES

- clear illustrations hold readers attention and aid in comprehension of key concepts
- ideal for classroom or professional use, so readers of all levels of training and experience can benefit from the techniques taught
- tested labs allow readers to get more out of the workable, interesting, hands-on examples
- labs for Windows and Linux Operating Systems provide a low-stress introduction to Linux security tools

## CONTENTS

Ethics of Hacking and Cracking. Reconnaissance. Scanning Tools. Sniffers. TCP/IP Vulnerabilities. Techniques of Password Cracking. Spoofing. Session Hijacking. Hacking Network Devices. Trojan Horses. Denial of Service Attacks. Buffer Overflows. Programming Exploits. Mail Vulnerabilities. Web Application Vulnerabilities. Windows Vulnerabilities. Linux Vulnerabilities. Incident Handling. A.1 Appendix 1. A.2 Appendix 2: ASCII Code. A.3 Appendix 3: IPv4 IP Packet Structure. A.4 Appendix 4: Hunt Menus. A.5 Appendix 5: Historic Windows.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4180-4827-5

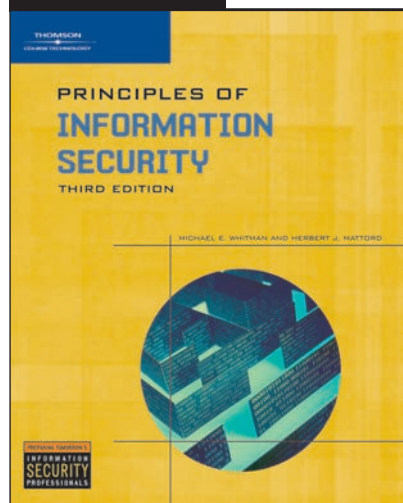
# PRINCIPLES OF INFORMATION SECURITY, THIRD EDITION

Michael E. Whitman & Herbert J. Mattord

ISBN: 1-4239-0177-0

ISBN-13: 978-1-4239-0177-8

624 pp, 7-3/8" x 9-1/4", SC, 1-Color ©2008



## ABOUT THE AUTHORS

**Michael E. Whitman, Ph.D., CISM, CISSP**, is a Professor of Information Systems at Kennesaw State University, Kennesaw, Georgia, where he is also the Director of the KSU Center for Information Security Education and the Coordinator of the Bachelor of Science in Information Security and Assurance program. Dr. Whitman is an active researcher and author of numerous books and scholarly articles in Information Security, Policy and Curriculum Development, Ethical Computing and Information Systems Research Methods.

**Herbert J. Mattord, CISSP, CDP**, has 24 years of IT industry experience. During his career as an IT practitioner, he has been an adjunct professor at Kennesaw State University in Kennesaw Georgia, Southern Polytechnic State University in Marietta, Georgia, Austin Community College in Austin, Texas, and Texas State University-San Marcos. He was formerly the Manager of Corporate Information Technology Security at Georgia-Pacific Corporation. Mr. Mattord is currently a tenure track instructor at Kennesaw State University, where he teaches undergraduate courses in Information Systems and Information Security and Assurance. He is the co-author of several books on the subject.

Explore the field of information security and assurance with this valuable resource that focuses on both the managerial and technical aspects of the discipline. *Principles of Information Security, Third Edition* builds on internationally recognized standards and bodies of knowledge to provide the knowledge and skills that information systems students need for their future roles as business decision-makers. Coverage includes key knowledge areas of the CISSP (Certified Information Systems Security Professional), as well as risk management, cryptography, physical security, and more. The third edition has retained the real-world examples and scenarios that made previous editions so successful, but has updated the content to reflect technology's latest capabilities and trends. With this emphasis on currency and comprehensive coverage, readers can feel confident that they are using a standards-based, content-driven resource to prepare them for their work in the field.

## KEY FEATURES

- fully conforms to CNSS training standard 4011, which allows federal recognition of programs based on this book
- uses examples of information security issues, tools, and practices implemented in today's businesses, fostering real-world application
- includes Offline boxes with sidebar articles for further study, and Technical Details boxes that separate highly technical information from the chapter narrative for easier reading
- includes extensive end-of-chapter pedagogy, including exercises and cases to reinforce the concepts and techniques being learned
- managerial content has been updated to provide general, yet valuable information, without bogging readers down with extraneous, highly specific details

## CONTENTS

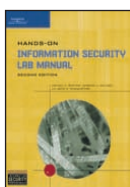
Introduction to Information Security. The Need for Security. Legal, Ethical, and Professional Issues in Information Security. Risk Management. Planning for Security. Security Technology: Firewalls and VPNs. Security Technology: Intrusion Detection, Access Control, and Other Security Tools. Cryptography. Physical Security. Implementing Information Security. Security and Personnel. Information Security Maintenance.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 1-4239-0183-5

**Hands-On Information Security Lab Manual, Second Edition**

ISBN: 0-619-21631-X



## ALSO AVAILABLE

### HANDS-ON INFORMATION SECURITY LAB MANUAL, SECOND EDITION

Michael E. Whitman, Herbert J. Mattord & Dave Shackelford  
431 pp, 8-1/2" x 10-7/8", SC, 1-Color, ©2005

ISBN: 0-619-21631-X

ISBN-13: 978-0-619-21631-3

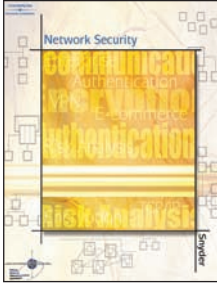
# NETWORK SECURITY

Terry Pardoe & Gordon F. Snyder, Jr.

ISBN: 1-4018-8214-5

ISBN-13: 978-1-4018-8214-3

544 pp, 7-3/8" x 9-1/2", SC, 1-Color, ©2005



Get the inside edge on the latest advances in the field of computer network security. *Networking Security* is an essential guide to all facets of information security ranging from basic network technology to the broad applications of network security used in e-commerce, Internet security, and enterprise systems. Highlights include lessons learned from September 11, 2001. Coverage concludes with a look at future trends, including global terror and proactive solutions.

## CONTENTS

Basic Computer Technology. Introduction - From Teleprocessing to Client Server Computing. Operating Systems and Applications. Networks and Networking. Risk and Threat Analysis. Risk, Analysis, and Special Concerns. The technology of Security. Access Control. Authentication. Encryption. PKI and Key Distribution. Security Devices and Software. Network Security. Physical and Data Link Layer Security. Security at the Network Layer - InternetSecurity. Application Level Security. Application and Service Supply Security. Security and E-commerce. Enterprise Systems and Solutions. The Telecommunications Industry. Planning Secure Systems and Implementing Effective Solutions. Planning for Security. Design Aspects. Installation of a Secure System. Operating a Successful and Secure System. Operation and Support. Monitoring on Going Operation. The Future. Future Trends: Threats and Technologies.

## SUPPLEMENTS

**Instructor's Guide on CD-ROM** ISBN: 1-4018-2025-5

**WebTutor on WebCT** ISBN: 1-4018-2362-9

**WebTutor on Blackboard™** ISBN: 1-4018-2505-2

# CRYPTOGRAPHIC PRINCIPLES AND APPLICATIONS

Thomas Calabrese

ISBN: 1-4283-3640-0

ISBN-13: 978-1-4283-3640-7

640 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2009

COVER  
CURRENTLY  
NOT  
AVAILABLE

Safeguarding the confidentiality, authenticity, integrity, and non-repudiation of information is paramount to organizational stability and success. This new book provides an understanding of information security, potential threats to our information, and effective countermeasures to proactively combat those threats. A comprehensive review of cryptographic techniques is explained in simple mathematical terms. The text covers symmetrical and asymmetrical encryption, digital signatures, Kerberos, code signing, creation/deployment of strong keys and passwords, Virtual Private Networks, SET, SSL, SSH, IPSec, and authentication techniques. A detailed examination of Tiny Encryption Algorithm (TEA) exposes readers to the inner workings of encryption. CD-ROM experiments help solidify the learning experience. Emphasis throughout is on the application of the cryptographic methods and support structures needed to effectively apply the principles to create a secure business setting.

## CONTENTS

Information & Security Planning. Introduction to Information Theory. Threat Agents & Risk. Information & The Law. A Model for Information Security Planning. Cryptographic Principles And Methods. Cryptographic Philosophy. Mathematical Principles of Cryptography. Symmetrical Key Cryptography. Public Key Infrastructure. Information System Security. Securing The Information System. Viruses & Worms. Putting It All Together.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4283-3641-9

# SOFTWARE SECURITY TECHNOLOGIES: A PROGRAMMATIC APPROACH

Richard Sinn

ISBN: 1-4283-1945-X

ISBN-13: 978-1-4283-1945-5

496 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



Providing the perfect blend of basic security theory and practical software security programming, *Software Security Technologies: A Programmatic Approach* offers a valuable introduction to the field of software security. Divided into three parts, this comprehensive guide encourages readers to master their security skills by building on the basics. The topics are explained using a straightforward approach, so that readers can grasp the information quickly and easily, gaining the confidence they need to further develop their skills in software security technologies.

## CONTENTS

Introduction to Security Concepts. Software Engineering and Security. Essential PKI. Trust and Threat Model. Java Programming Security. Java API-Level Security Features. Authentication and Authorization with Java. Secure Programming with C and OpenSSL. Secure Programming with Perl. Identity Management. Security Topics.

## SUPPLEMENT

 **e.resource** ISBN: 1-4283-1946-8

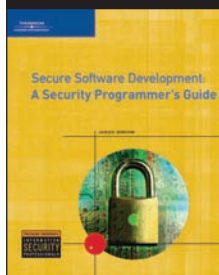
# SECURE SOFTWARE DEVELOPMENT: A SECURITY PROGRAMMER'S GUIDE

Jason Grembi

ISBN: 1-4180-6547-1

ISBN-13: 978-1-4180-6547-8

608 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



Learn the essentials of developing secure software in accordance with the most current industry standards, in this comprehensive instructional guide. *Secure Software Development: A Programmer's Guide* leads readers through the tasks and activities that successful computer programmers navigate on a daily basis, from reading and analyzing requirements to choosing development tools, to guarding against software vulnerabilities and attacks. With clear, straightforward examples and actual code snippets, readers can feel confident that they will gain the skills needed to develop software with all the critical components that ensure quality and security.

## CONTENTS

Why You Need to Learn Secure Programming. Coding: Not a Solitary Practice. Software Development Lifecycle. Development Team. Watching it Unfold. Quality and Security: The First Focus. Code for Quality. Build Security In. Going Live: What To Do on Day 1. The Application Guideline. Coming to Terms: Defining Your Conventions. Agree To Disagree. Security Requirements. Requirement Gathering Identify Assets. Risk Management. Collaborating at the Whiteboard: Security and Quality Are No Accident Object Modeling. Choose the Language. Design quality code. Development Tools: How to Choose Wisely IDEs Tools. Versioning tools. Networking Tools. Coding in the Cube: Let's Get to Work. Functions, Procedures, and Code Blocks. Structuring for Validation. Structured Programming. Debugging. Testing When Your Peers Are Looking. Code Reviews. Testing When Everyone is Looking. Classification of Security Defects. Measurement of Secure Performance. Managing the Overall Testing Process. After the Glory: Maintaining It 9 to 5. We're Scanning for Threats. Like Networking. Startup Maintenance. How to Code During Maintenance. How to Apply Security Requirements. How to Advance in Maintenance. The Security Consulting Companies: Know Who's Out There. Lightweight Processes – Apply CLASP to Your Process. The Horizon: Maintaining Your Profession. The Impact of Outsourcing. How You Gain Knowledge to Secure Your Position. What You Will Need to Know for the Next Project. How to be Informed.

## SUPPLEMENT

 **e.resource** ISBN: 1-4180-6548-X

# MANAGEMENT OF INFORMATION SECURITY, INTERNATIONAL EDITION, THIRD EDITION

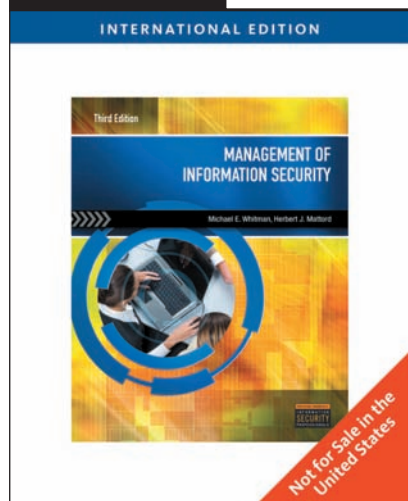
Michael E. Whitman & Herbert J. Mattord

**NEW!**

ISBN: 0-8400-3160-2

ISBN-13: 978- 0-8400-3160-0

576 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2011



*Management of Information Security*, International Edition primarily focuses on the managerial aspects of information security, such as access control models, information security governance, and information security program assessment and metrics. Coverage on the foundational and technical components of information security is included to reinforce key concepts. The third edition includes up-to-date information on changes in the field such as revised sections on national and international laws and international standards like the ISO 27000 series. With these updates, *Management of Information Security* continues to offer a unique overview of information security from a management perspective while maintaining a finger on the pulse of industry changes and academic relevance.

## KEY FEATURES

- Reflects changes in the field, including revised sections on national and international laws and international standards like the ISO 27000 series.
- Additional coverage in key managerial areas of Information Security Governance, Access Control Models, and Information Security Program Assessment and Metrics.
- Former Chapter 12, Project Management, has been merged into Chapter 1 – providing all introductory and general IT managerial material in the opening chapter.
- Chapter 6, Security Management Models and Practices, has been split into two chapters and enhanced with more practices and models, consolidating and enhancing coverage of security management materials.
- Applies a running case study which follows a fictional company as it encounters various information security issues, rounded out by discussion questions that encourage class participation.
- Offers "Viewpoint" essays to provide a range of commentary that illustrate interesting topics or share personal experiences--providing students with real-world examples.

## CONTENTS

Unit I: INTRODUCTION. 1: Introduction to Management of Information Security. UNIT II: PLANNING. 2: Planning for Security. 3: Planning for Contingencies. UNIT III: POLICY AND PROGRAMS. 4: Security Policy. 5: Developing Security Programs. 6: Security Management Models. 7: Security Management Practices. UNIT IV: PROTECTION. 8: Risk Assessment. 9: Controlling Risk. 10: Protection Mechanisms. UNIT V: PEOPLE. 11: Personnel and Security. 12: Law and Ethics. Appendix A : NIST SP 800-26, Security Self-Assessment Guide for Information. Technology Systems and ISO 27002 Questionnaire. Appendix B : Risk Management Models.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 1-4354-8883-0

**Readings and Cases in Information Security:**

**Law & Ethics** ISBN: 1-4354-4157-5

**Hands-On Information Security Lab Manual** ISBN: 0-619-21631-X



# HANDS-ON ETHICAL HACKING AND NETWORK DEFENSE, INTERNATIONAL EDITION, SECOND EDITION

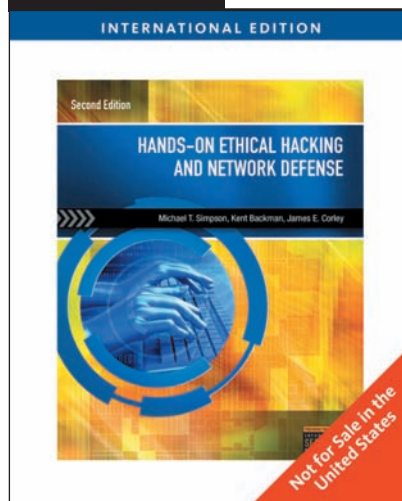
Michael T. Simpson

**NEW!**

ISBN: 1-4354-9665-5

ISBN-13: 978-1-4354-9665-1

480 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2011



*Hands-On Ethical Hacking and Network Defense, International Edition* provides an in-depth understanding of how to effectively protect computer networks. This book describes the tools and penetration testing methodologies used by ethical hackers and provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Readers are provided with updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also included is a thorough update of the federal and state computer crime laws, as well as changes in penalties for illegal computer hacking. With cyber-terrorism and corporate espionage threatening the fiber of our world, the need for trained network security professionals continues to grow. *Hands-On Ethical Hacking and Network Defense, Second Edition* provides a structured knowledge base to prepare readers to be security professionals who understand how to protect a network by using the skills and tools of an ethical hacker.

## KEY FEATURES

- Provides updated computer security tools with a look at new vulnerabilities and exploits and innovative methods to protect networks.
- Includes a thorough update of the federal and state computer crime laws as well as changes in penalties for illegal computer hacking.
- Information on Web filtering, Intrusion Prevention System (IPS), and a look at how virtualization is used both by hackers and security professionals alike has been added to this edition.
- Provides a step-by-step approach to penetration testing techniques and methodologies.

## CONTENTS

Ethical Hacking Overview. TCP/IP Concepts Review. Network and Computer Attacks. Footprinting and Social Engineering. Port Scanning. Enumeration. Programming for Security Professionals. Microsoft Operating System Vulnerabilities. Linux Operating System Vulnerabilities. Hacking Web Servers. Hacking Wireless Networks. Cryptography. Protecting Networks with Security Devices. Appendices.

## SUPPLEMENTS

**Instructor's Resource CD-ROM** ISBN: 1-4354-8610-2



# READINGS & CASES IN INFORMATION SECURITY: LAW & ETHICS

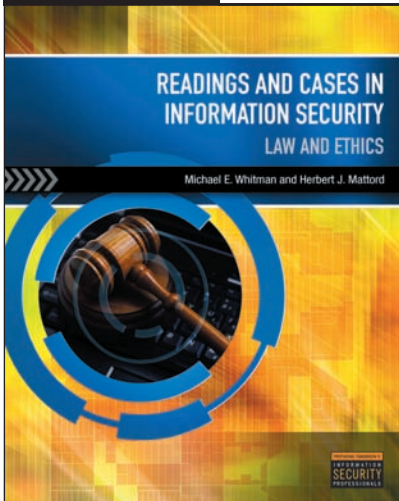
**NEW!**

Michael E. Whitman &amp; Herbert J. Mattord

ISBN: 1-4354-4157-5

ISBN-13: 978-1-4354-4157-6

352 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2011



READINGS AND CASES IN INFORMATION SECURITY: LAW AND ETHICS provides a depth of content and analytical viewpoint not found in many other books. Designed for use with any Cengage Learning security text or as a standalone professional reference, this book offers readers a real-life view of information security management, including the ethical and legal issues associated with various on-the-job experiences. Included are a wide selection of foundational readings and scenarios from a variety of experts to give the reader the most realistic perspective of a career in information security.

## KEY FEATURES

- Contains a variety of case studies designed to stimulate in-class and written discussion.
- Prepares the reader for situations in the information security industry with best practices, articles and cases relating to the most up-to-date security issues.
- Discussion questions at the end of various readings or case studies inspire the reader to further their understanding of each case and gain better perspective on material covered.
- Coverage of current ethical and legal issues provides a modern look at one of today's fastest growing fields.
- Running case studies uses realistic scenarios to prompt classroom discussion and expand worldview on legal and ethical matters in the information security field.

## CONTENTS

Part I: Preface & Introduction. Part II: Running Case: Introduction And Background. Part III: Personnel & Privacy. Part IV: Risk Management. Part V: Management Of Security Technology. Part VI: Information Security Program Management. Part VII: Regulatory Compliance Management.

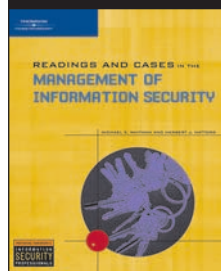
# READINGS AND CASES IN THE MANAGEMENT OF INFORMATION SECURITY

Michael E. Whitman & Herbert J. Mattord

ISBN: 0-619-21627-1

ISBN-13: 978-0-619-21627-6

272 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2005



This collection of readings provides readers with a depth of content and analytical perspective not found in other books. It can be used alongside other titles in the Course Technology Security series, or as a standalone book.

## CONTENTS

Mobile Device Security Management—Benjamin J. Halpert. Linking Business Objectives and Security Directives—Donald L. Pipkin. Managing Incident Response—David M. Shackleford. Zen and the Art of Information Security: A Philosophical, Spiritual and Mystical Approach to Protecting Information—Michael E. Whitman, Herbert J. Mattord. The Role of Information Security and Its Relationship to Information Technology Risk Management—Chrisan Herrod. Architecting and Managing Secure Biometric Systems—Kameswara Raonamuduri, Savitha S. Kadiyala. Integration and Ethical Perspectives for Information Systems Management—Ernest A. Capozzoli, Rober D. Winsor, Sheb L. True. Security Education, Training, and Awareness from a Human Performance Technology Point of View—Melissa J. Dark. The Provision of Defenses Against Internet-Based Attacks—Li-Chiou Chen, Thomas A. Longstaff, Kathleen M. Carley. Trust, Controls and Information Security—Irene Woon, Atreyi Kankanhalli. Hierarchical Model of Organizational Work in the Sphere of Information Security—Alexander Anisimov. Transparency in Information Security System Design—Herbert J. Mattord, Michael E. Whitman. Cases in the Management of Information Security. Computer Gaming Technologies—CGT Inc.—Michael E. Whitman, Herbert J. Mattord. Assessing and Mitigating the Risks to a Hypothetical Computer System—National Institute of Standards and Technology (NIST), Technology Administration, U.S. Department of Commerce. Random Widget Works—Michael E. Whitman, Herbert J. Mattord. Sequential Label and Supply—Herbert J. Mattord, Michael E. Whitman. Brightington Academy—Michael E. Whitman, Herbert J. Mattord. The 9/11 Commission Report—Herbert J. Mattord, Michael E. Whitman.

## SUPPLEMENT

**Hands-On Information Security Lab Manual, Second Edition** ISBN: 0-619-21631-X

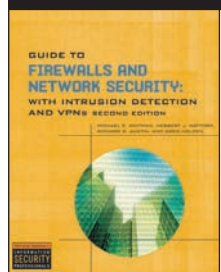
# GUIDE TO FIREWALLS AND NETWORK SECURITY SECOND EDITION

Michael Whitman, Herbert Mattord, Richad Austin & Greg Holden

ISBN: 1-4354-2016-0

ISBN-13: 978-1-4354-2016-8

520 pp, ©2009



Firewalls are among the best-known security tools in use today, and their critical role in information security continues to grow. However, firewalls are most effective when they are backed by effective security planning, a well-designed security policy, and when they work in concert with anti-virus software, intrusion detection systems, and other tools. This book aims to explore firewalls in the context of these other elements, providing readers with a solid, in-depth introduction to firewalls that focuses on both managerial and technical aspects of security. Coverage includes packet filtering, authentication, proxy servers, encryption, bastion hosts, virtual private networks (VPNs), log file maintenance, and intrusion detection systems. The second edition offers updated content and brand new material, from enhanced coverage of non-firewall subjects like information and network security to an all-new section dedicated to intrusion detection in the context of incident response.

## CONTENTS

Introduction. Chapter 1 - Introduction to Information Security. Chapter 2 - An Introduction to Networking. Chapter 3 - Security Policies, Standards, and Planning. Chapter 4 - Finding Network Vulnerabilities. Chapter 5 - Firewall Planning and Design. Chapter 6 - Packet Filtering. Chapter 7 - Working with Proxy Servers and Application-Level Firewalls. Chapter 8 - Firewall Configuration and Administration. Chapter 9 - Encryption and Firewalls. Chapter 10 - Authenticating. Chapter 11 - Setting Up a Virtual Private Network. Chapter 12 - Contingency Planning. Chapter 13 - Intrusion Detection and Prevention Systems. Chapter 14 - Digital Forensics.

## SUPPLEMENTS

**Instructor's Resources** ISBN: 1-4354-2017-9

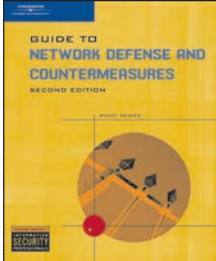
# GUIDE TO NETWORK DEFENSE AND COUNTERMEASURES, SECOND EDITION

Randy Weaver

ISBN: 1-4188-3679-6

ISBN-13: 978-1-4188-3679-5

528 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2005



*Guide to Network Defense and Countermeasures, Second Edition* is the second of two books that are required for Level One of the Security Certified Program (SCP). This edition has been revised with updated content and maps clearly to the exam objectives for the current Security Certified Network Professional (SCNP) exam. Although the primary emphasis is on intrusion detection, the book also covers such essential practices as developing a security policy and then implementing that policy by performing Network Address Translation, setting up packet filtering, and installing proxy servers, firewalls, and virtual private networks.

## CONTENTS

Network Defense Fundamentals. Security Policy Designs. Security Policy Implementation. Network Traffic Signatures. Virtual Private Network (VPN) Concepts. Virtual Private Network (VPN) Implementation. Intrusion Detection: System Concepts. Intrusion Detection: Incident Response. Firewall Concepts. Firewall Topology. Firewall Configuration. Strengthening Defense Through Ongoing Management. Appendix.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4188-3759-8

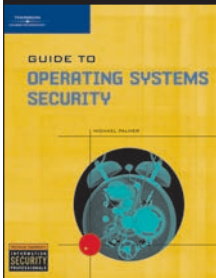
# GUIDE TO OPERATING SYSTEMS SECURITY

Michael Palmer

ISBN: 0-619-16040-3

ISBN-13: 978-0-619-16040-1

618 pp, 7-3/8" x 9-1/4", SC, 1-Color ©2003



*Guide to Operating Systems Security* is designed to expand networking student's basic network and operating system skills to include planning, implementation, and auditing of a system's security. This text covers a variety of operating systems, including a Windows client operating system, Windows server operating system, Linux, Novell NetWare, and Mac OS. Each chapter offers extensive learning aids including review questions, hands-on projects, and case studies that reinforce concepts and help student apply them to real world applications.

## CONTENTS

Operating Systems Security: Keeping Computers and Networks Secure. Viruses, Worms, and Malicious Software. Security Through Authentication and Encryption. Account-Based Security. File, Directory, and Shared Resource Security. Firewalls and Border Security. Physical and Network Topology Security. Wireless Security. Web, Remote Access, and VPN Security. E-Mail Security. Security Through Disaster Recovery. Security Through Monitoring and Auditing. Appendix A.

## SUPPLEMENT

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Carl J. Berquist

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ISBN-13: 978-0-7906-1245-4

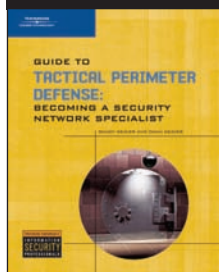
# GUIDE TO TACTICAL PERIMETER DEFENSE BECOMING A SECURITY NETWORK SPECIALIST

Randy Weaver & Dawn Weaver

ISBN: 1-4283-5630-4

ISBN-13: 978-1-4283-5630-6

544 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



*Guide to Tactical Perimeter Defense: Becoming a Security Network Specialist* examines the critical defensive technologies needed to secure network perimeters. Written to map to the Security Certified Network Specialist certification, this book includes coverage of network security threats and goals, advanced TCP/IP concepts, router security, intrusion detection, firewall design and configuration, IPSec and virtual private network (VPN) design, and wireless network design and security.

## CONTENTS

Network Defense Fundamentals. Advanced TCP/IP. Router Fundamentals. Fundamentals of Cisco Router Security. Designing Firewalls. Configuring Firewalls. Managing Firewalls to Improve Security. Implementing IPSec and Virtual Private Networks. Designing Virtual Private Networks. Designing Intrusion Detection Systems. Configuring and Using Intrusion Detection Systems. Wireless Network Fundamentals. Securing Wireless Networks.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4283-5631-2

# GUIDE TO STRATEGIC INFRASTRUCTURE SECURITY: BECOMING A SECURITY NETWORK PROFESSIONAL

Randy Weaver

ISBN: 1-4188-3661-3

ISBN-13: 978-1-4188-3661-0

450 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2008



*Guide to Strategic Infrastructure Security: Becoming a Security Network Professional* is the first of two books that are required for Level One of the Security Certified Program (SCP). This book maps clearly to the exam objectives for the current Security Certified Network Professional (SCNP) exam. Designed to help students develop beyond the Security+ certification, this book provides a solid foundation in network security fundamentals but assumes familiarity with basic concepts. This book focuses on how to protect a range of different operating systems against attacks, how to develop more effective security strategies, and how to handle emergencies. Case Projects and Hands-On Projects help readers practice their new skills, and expose them to the day-to-day duties of a security professional.

## CONTENTS

Business Continuity and Contingency Planning. TCP/IP Concepts. Attack Tools and Techniques. Cisco Router Fundamentals. Cisco Router Security Fundamentals. Windows 2000 Security Fundamentals. Windows 2000 Security Configuration Tools. Windows 2000 Network and Resource Security. Fundamental Linux Security. Securing the Infrastructure. Upgrading Your Windows 2000 Network to Windows Server 2003.

## SUPPLEMENT

**Instructor's Resource** ISBN: 1-4188-3760-1

# SECURITY AND ACCESS CONTROL USING BIOMETRIC TECHNOLOGIES, INTERNATIONAL EDITION

NEW!

Robert Newman

ISBN: 1-4354-9667-1

ISBN-13: 978- 1-4354-9667-5

512 pp, 7-3/8" x 9-1/4", PB, 1-Color, ©2010



*Security and Access Control Using Biometric Technologies, International Edition* presents an introduction to biometrics or the study of recognizing individuals based on their unique physical or behavioral traits, as they relate to computer security. The book begins with the basics of biometric technologies and discusses how and why biometric systems are emerging in information security. An emphasis is directed towards authentication, authorization, identification, and access control. Topics covered include security and management required to protect valuable computer and network resources and assets, and methods of providing control over access and security for computers and networks. Written for a broad level of readers, this book applies to information system and information technology students, as well as network managers, security administrators and other practitioners. Oriented towards the practical application of biometrics in the real world, *Security and Access Control Using Biometric Technologies* provides the reader with a realistic view of the use of biometrics in the ever-changing industry of information security.

## CONTENTS

PART I – FUNDAMENTALS. 1. Access Control Using Biometrics. 2. Biometric Traits and Modalities. PART II – TECHNOLOGY. 3. Biometric Applications and Solutions. 4. Repositories for Database and Template Storage. 5. Legacy and Biometric Systems. 6. Uni-Modal, Multi-modal, and Multi-biometrics Integration. PART III – ADMINISTRATION. 7. Policy and Program Management. 8. Access Control Methods and Technologies. 9. System Confidentiality, Integrity, and Accessibility. 10. Security and Privacy Issues. 11. Implementation, Operation, and Management Issues. 12. Standards, Organizations, and Legal Environment. Glossary. Appendices. A. Biometrics acronyms. B. Biometrics vendors. Index.

## SUPPLEMENTS

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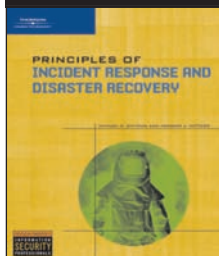
# PRINCIPLES OF INCIDENT RESPONSE AND DISASTER RECOVERY

Michael E. Whitman & Herbert J. Mattord

ISBN: 1-4188-3663-X

ISBN-13: 978-1-4188-3663-4

480 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2007



Are you ready to respond to an unauthorized intrusion to your computer network or server? *Principles of Incident Response and Disaster Recovery* presents methods to identify vulnerabilities and take appropriate countermeasures to prevent and mitigate failure risks for an organization. Not only does this book present a foundation in disaster recovery principles and planning, but it also emphasizes the importance of incident response minimizing prolonged downtime that can potentially lead to irreparable loss. This book is the first of its kind to address the overall problem of contingency planning rather than focusing on specific tasks of incident response or disaster recovery.

## CONTENTS

Introduction and Overview of Contingency Planning. Planning for Organizational Readiness. Incident Response: Preparation, Organization & Prevention. Incident Response: Detection and Notification. Incident Response: Reaction. Incident Response: Recovery and Maintenance. Disaster Recovery: Preparation and Implementation. Disaster Recover: Operation and Maintenance. Business Continuity Preparation and Implementation. Business Continuity Operations and Maintenance. Crisis Management and Human Factors. Appendix A: Incident Response Exercises.

## SUPPLEMENTS

**Instructor's Resource** ISBN: 1-4188-3752-0

**Hands-On Information Security Lab Manual, Second Edition** ISBN: 0-619-21631-X

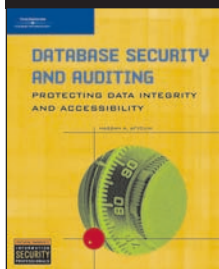
# DATABASE SECURITY AND AUDITING: PROTECTING DATA INTEGRITY AND ACCESSIBILITY

Sam Afyouni

ISBN: 0-619-21559-3

ISBN-13: 978-0-619-21559-0

448 pp, 7-3/8" x 9-1/4", SC, 1-Color ©2005



Designed for maximum learning, this book is broken into three sections: Security, Auditing and Implementation. Readers will fully understand how to implement database security on modern business databases using practical scenarios and step-by-step examples throughout the book. Each chapter ends with exercises and a hands-on project to reinforce and showcase the topics learned. The final chapter allows the readers to apply their knowledge in a presentation of four real-world cases using security and auditing.

## CONTENTS

Security Architecture. Operating System Security Fundamentals. Administration of Users, Profiles, Password Policies, Privileges, and Roles. Database Application Security Models. Virtual Private Databases. Database Auditing Models. Application Data Auditing. Auditing Database Activities. Security and Auditing Project Cases. Appendix.

## SUPPLEMENT

**Instructor's Resource** ISBN: 0-619-21575-5



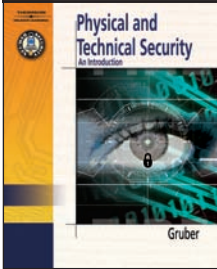
# PHYSICAL AND TECHNICAL SECURITY: AN INTRODUCTION

Robert Gruber

ISBN: 1-4018-5066-9

ISBN-13: 978-1-4018-5066-1

440 pp, 7-3/8" x 9-1/4", SC, 1-Color, ©2006



*Physical and Technical Security: An Introduction* furnishes readers with an industry-based perspective on all aspects of physical security, including what works and what does not, through a careful mix of theory and practical application. Readers will obtain a solid foundation in both the technological and operational aspects of physical security through comprehensive coverage that explores such principal topics as security electronics, communications systems, test equipment, video and optics, alarm systems, computers and security software, access control, and more.

## CONTENTS

Planning and Defining Physical Security. Security Electronics. Communications Systems. Test Equipment. Transmission Line Theory. Video and Optics. Alarm Systems. Computers and Security Software. Low-tech Tools, Small Tools, and Methods of Use. Locks, Keys, and Access Control. Technical Surveillance Countermeasures. Putting it Together with Risk Analyses and Physical Security Surveys. Appendices.

## SUPPLEMENT

**Instructor's Guide on CD-ROM** ISBN: 1-4018-5067-7

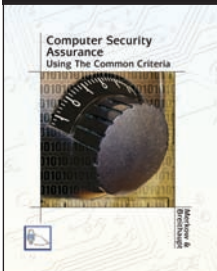
# COMPUTER SECURITY ASSURANCE: USING THE COMMON CRITERIA

Mark S. Merkow & Jim Breithaupt

ISBN: 1-4018-6265-9

ISBN-13: 978-1-4018-6265-7

448 pp, 7-3/8" x 9", SC, 1-Color, ©2005



Gain a thorough understanding of computer security engineering and practices with this friendly and easy-to-understand book. Readers navigate through all the activities within the Common Criteria (CC) that have gained the attention of the security community and will revolutionize how people compare, select, purchase, and maintain security systems.

## CONTENTS

Building Trust in Security Systems: Foundations of IT Security Assurance. The Common Criteria (CC). The Pieces of the Common Criteria (CC) Puzzle: Participants and Activities within the Common Criteria (CC). Developing a Protection Profile (PP). Developing Security Targets. The CCToolBox. Common Criteria (CC) Interpretations and Issue Resolution. Evaluation Phase: Evaluating Target of Evaluations (TOEs). Certification Process. Maintenance of Assurance. The Common Criteria (CC) at Work. Appendixes. Glossary.

## SUPPLEMENT

**Instructor's Guide** ISBN: 1-4018-6266-7

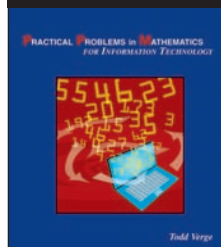
# PRACTICAL PROBLEMS IN MATHEMATICS FOR INFORMATION TECHNOLOGY

Todd Verge

ISBN: 1-4283-2200-0

ISBN-13: 978-1-4283-2200-4

288 pp, 8" x 9-1/4", SC, 1-Color, ©2009



Create a new approach to explaining the math and logic fundamentals required in the information technology industry. *Practical Problems in Mathematics for Information Technology* is an exciting new resource for building a solid foundation in the mathematical skills that are used in a number of areas, such as networking, systems administration, programming, database management, web programming, and computer repair. By presenting examples, problems, and exercises that are taken directly from these concentration areas, readers will not only build their mathematical know-how, but they will achieve the added benefit of being fully prepared for the types of challenges they are likely to encounter on the job. Real-world examples from the industry are included throughout this new book.

## CONTENTS

Whole Numbers. Common Fractions. Decimal Fractions. Statistics. Units and Notation. Exponential and Logarithms. Matrices. Numbering Systems. Sets. Logic. Using a Calculator. The Metric System. Bits and Bytes. ASCII Table.

## SUPPLEMENT

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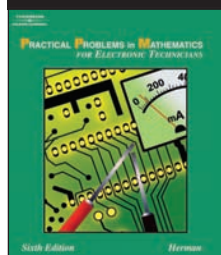
# PRACTICAL PROBLEMS IN MATHEMATICS FOR ELECTRONIC TECHNICIANS, FOURTH EDITION

Stephen L. Herman

ISBN: 1-4018-2500-1

ISBN-13: 978-1-4018-2500-3

256 pp, 8" 9-1/4", SC, 1-Color, ©2004



Success in the electronics field requires a substantial background in mathematics. This updated book is written to provide beginning students with these needed skills. Practical, easy-to-understand problems help prepare students for the types of problems that professional electronic technicians face everyday. As part of the successful *Practical Problems in Mathematics* series, this fourth edition features expanded coverage of scientific notation, increased problems to be solved using a calculator, additional information on RLC circuits, and a new unit on simultaneous equations that includes coverage of Kirchoff's Law.

## CONTENTS

Whole Numbers. Common Fractions. Decimal Fractions. Exponents, Electronics Units, and Roots. Formulas, Ohm's Law, and Power Law. Ratio and Proportion. Measurement and Graphs. Percentages, Averages, and Tolerances. AC Circuits. Appendix. Glossary. Answer Key.

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Robert Smith & John C. Peterson



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## CONTENTS

Fundamentals of General Mathematics. Measurement. Fundamentals of Algebra. Fundamentals of Plane Geometry. Geometric Figures: Areas and Volumes. Basic Statistics. Fundamentals of Trigonometry. Appendices.

## SUPPLEMENTS

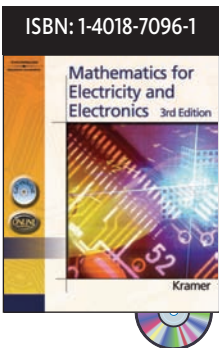


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**Student Solution Manual** ISBN: 1-4180-1546-6

# MATHEMATICS FOR ELECTRICITY AND ELECTRONICS, THIRD EDITION

Arthur Kramer



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## CONTENTS

Basic Arithmetic. Decimals and Percentages. Powers and Roots. Systems of Measurement. Basic Algebra. Linear Equations. Basics of DC Circuits. Multiplying and Factoring Polynomials. Algebraic Fractions. Formulas and Problem Solving. Series and Parallel DC Circuits. Graphs. Linear Systems. Network Analysis. Network Theorems. Trigonometry of the Right Triangle. Trigonometry of the Circle. Alternating Current. Trigonometry of Vectors. Complex Numbers and Phasors. Series AC Circuits. Parallel AC Circuits. Exponents and Logarithms. Applications of Logarithms. Computer Number Systems. Boolean Algebra. Statistics.

## SUPPLEMENTS



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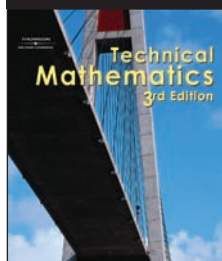
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John C. Peterson

ISBN: 0-7668-6188-0

ISBN-13: 978-0-7668-6188-6

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## CONTENTS

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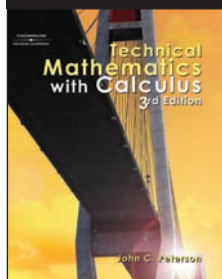
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John C. Peterson

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ISBN-13: 978-0-7668-6189-3

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## CONTENTS

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## SUPPLEMENTS

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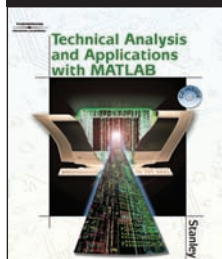
# TECHNICAL ANALYSIS AND APPLICATIONS WITH MATLAB

William Stanley

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## CONTENTS

MATLAB Primer. Matrices. Matrix Algebra with MATLAB. Curve Plotting with MATLAB. Common Mathematical Functions and their Properties. Differential Calculus. Integral Calculus. Calculus Operations with MATLAB. Differential Equations: Classical Methods. Differential Equations: Laplace Transform Methods. Solution of Differential Equations with MATLAB. Introduction to Statistics. Curve Fitting and Correlation. Introduction to Spatial Vector Analysis. Complex Numbers. Fourier Analysis with MATLAB.

**A**

<b>Adams,Wells/Residential Integrator's Certification</b> ISBN: 1-4180-1409-5, ISBN-13: 978-1-4180-1409-4 .....	40
<b>Adams, Wilson/Residential Integrator's Project Management</b> ISBN: 1-4180-1411-7, ISBN-13: 978-1-4180-1411-7 .....	40
<b>Adamson/70-297: MCSE Guide to Designing a Microsoft® Windows® Server 2003 Active Directory and Network Infrastructure</b> ISBN: 0-619-12026-6, ISBN-13: 978-0-619-12026-9 .....	71
<b>Afyouni/Database Security and Auditing: Protecting Data Integrity and Accessibility ISBN: 0-619-21559-3, ISBN-13: 978-0-619-21559-0 .....</b>	93
<b>Andrews/A+ Guide to Hardware: Managing, Maintaining and Troubleshooting, International Edition, 5E</b> ISBN: 1-4354-8703-6, ISBN-13: 978-1-4354-8703-6 .....	46
<b>Andrews/A+ Guide to Managing and Maintaining Your PC, International Edition, 7E</b> ISBN: 1-4354-8704-4, ISBN-13: 978-1-4354-8704-8 .....	45
<b>Andrews/A+ Guide to Software: Managing, Maintaining and Troubleshooting, International Edition, 5E</b> ISBN: 1-4354-8702-8, ISBN-13: 978-1-4354-8702-4 .....	47
<b>Andrews/A+ Troubleshooting Scenarios</b> ISBN: 1-4283-2045-8, ISBN-13: 978-1-4283-2045-1 .....	52
<b>Andrews/Fixing Windows® Vista</b> ISBN: 1-4283-2043-1, ISBN-13: 978-1-4283-2043-7 .....	53
<b>Andrews/Fixing Windows® XP</b> ISBN: 1-4188-3702-4, ISBN-13: 978-1-4188-3702-0 .....	53
<b>Andrews/PC Troubleshooting Pocket Guide, 6E</b> ISBN: 1-4354-8734-6 ISBN-13: 978-1-4354-8734-5 .....	48
<b>Andrews/Supporting Windows Vista</b> ISBN: 1-4239-0216-5, ISBN-13: 978-1-4239-0216-4 .....	53
<b>Andrews, Beck/I-Net+ Guide to the Internet, 3E</b> ISBN: 0-619-21614-X, ISBN-13: 978-0-619-21614-6 .....	64
<b>Antonakos/The Intel® Microprocessors Family: Hardware and Software Principles and Applications</b> ISBN: 1-4180-3845-8, ISBN-13: 978-1-4180-3845-8 .....	34
<b>Aubert, McCann/70-294: MCSE Guide to Microsoft® Windows® Server 2003 Active Directory, Enhanced ISBN: 0-619-21755-3, ISBN-13: 978-0-619-21755-6 .....</b>	71
<b>Ayala/The 8051 Microcontroller, 3E</b> ISBN: 1-4018-6158-X, ISBN-13: 978-1-4018-6158-2 .....	35

**B**

<b>Baker/Experiments in DC/AC Circuits with Concepts</b> ISBN: 0-7668-4035-2, ISBN-13: 978-0-7668-4035-5 .....	4
<b>Barnett, Cox, O'Cull/Embedded C Programming and the Atmel AVR, 2E</b> ISBN: 1-4180-3959-4, ISBN-13: 978-1-4180-3959-2 .....	33
<b>Barnett, Cox, O'Cull/Embedded C Programming and the Microchip PIC</b> ISBN: 1-4018-3748-4, ISBN-13: 978-1-4018-3748-8 .....	36
<b>Barrett, Ferguson/70-299: MCSE Guide to Implementing and Administering Security in a Microsoft® Windows® Server 2003 Network</b> ISBN: 0-619-21713-8, ISBN-13: 978-0-619-21713-6 .....	71
<b>Bartelt/Industrial Control Electronics: Devices, Systems &amp; Applications, 3E ISBN: 1-4018-6292-6, ISBN-13: 978-1-4018-6292-3 .....</b>	28
<b>Bartelt/Industrial Automated Systems: Instrumentation and Process Control ISBN: 1-4354-8888-1, ISBN-13: 978-1-4354-8888-5 .....</b>	26
<b>Bartelt/Instrumentation and Process Control</b> ISBN: 1-4180-4171-8, ISBN-13: 978-1-4180-4171-7 .....	27
<b>Basta, Halton/Computer Security and Penetration Testing</b> ISBN: 1-4180-4826-7, ISBN-13: 978-1-4180-4826-6 .....	82
<b>Baxter/Residential Networks</b> ISBN: 1-4018-6267-5, ISBN-13: 978-1-4018-6267-1 .....	41
<b>Berquist/Guide to Electronic Surveillance Devices</b> ISBN: 0-7906-1245-3, ISBN-13: 978-0-7906-1245-4 .....	90
<b>Bignell, Donovan/Digital Electronics, 5E</b> ISBN: 1-4180-2026-5, ISBN-13: 978-1-4180-2026-2 .....	14
<b>Black/Technician's Guide to the 68HC11 Microcontroller</b> ISBN: 0-7668-1715-6, ISBN-13: 978-0-7668-1715-9 .....	36
<b>Blake/Electronic Communication Systems, 2E</b> ISBN: 0-7668-2684-8, ISBN-13: 978-0-7668-2684-7 .....	19
<b>Blake/Wireless Communication Technology</b> ISBN: 0-7668-1266-9, ISBN-13: 978-0-7668-1266-6 .....	20
<b>Braga/CMOS Sourcebook</b> ISBN: 0-7906-1234-8, ISBN-13: 978-0-7906-1234-8 .....	12
<b>Braga/Mechatronics Sourcebook</b> ISBN: 1-4018-1432-8, ISBN-13: 978-1-4018-1432-8 .....	30

<b>Bryant/Circuit Analysis Essentials:A Signal Processing Approach</b> ISBN: 1-4018-5041-3, ISBN-13: 978-1-4018-5041-8 .....	8
---------------------------------------------------------------------------------------------------------------------------------	---

**C**

<b>Calabrese/Cryptographic Principles and Applications</b> ISBN: 1-4283-3640-0, ISBN-13: 978-1-4283-3640-7 .....	84
<b>Cannon, Caudle/Complete Guide to CISCO Networking Fundamentals</b> ISBN: 1-4188-3705-9, ISBN-13: 978-1-4188-3705-1 .....	65
<b>Cardinale/Optoelectronics: Introductory Theory and Experiments</b> ISBN: 0-7668-6268-2, ISBN-13: 978-0-7668-6268-5 .....	11
<b>Carswell/MCDST Guide to Supporting Users and Troubleshooting Desktop Applications on a Microsoft® Windows® XP Operating System (Exam #70-272) ISBN: 0-619-21602-6, ISBN-13: 978-0-619-21602-3 .....</b>	55
<b>Carswell, Webb/Guide to Microsoft® Virtual PC 2007 and Virtual Server 2005 ISBN: 1-4283-2195-0, ISBN-13: 978-1-4283-2195-3 ...</b>	67
<b>Carswell,Webb, Freese/Guide To Parallel Operating Systems with Windows XP and Linux ISBN: 1-4188-3725-3, ISBN-13: 978-1-4188-3725-9 .....</b>	72
<b>Chappell, Tittel/Guide to TCP/IP, 3E</b> ISBN: 1-4188-3755-5, ISBN-13: 978-1-4188-3755-6 .....	64
<b>Chartrand/Advanced Digital Systems:Experiments and Concepts with CPLDs ISBN: 1-4018-6636-0, ISBN-13: 978-1-4018-6636-5 .....</b>	16
<b>Chartrand/Digital Fundamentals:Experiments and Concepts with CPLDs</b> ISBN: 1-4018-4246-1, ISBN-13: 978-1-4018-4246-8 .....	15
<b>Chatterjee/Biomedical Instrumentation Systems</b> ISBN: 1-4180-1866-X, ISBN-13: 978-1-4180-1866-5 .....	43
<b>Chiarella/CCNA Self-Study Guide, 2E (Exam #640-801)</b> ISBN: 1-4180-0574-6, ISBN-13: 978-1-4180-0574-0 .....	66
<b>Chiarella/Compitia Network+ Self-Study Guide, 2E</b> ISBN: 1-4180-0933-4, ISBN-13: 978-1-4180-0933-5 .....	61
<b>Chiarella/Internetworking with CISCO and Microsoft Technologies</b> ISBN: 1-4018-9946-3, ISBN-13: 978-1-4018-9946-2 .....	66
<b>Ciampa/CWNA Guide to Wireless LANs, 2E</b> ISBN: 0-619-21579-8, ISBN-13: 978-0-619-21579-8 .....	77
<b>Ciampa/CWSP Guide to Wireless Security</b> ISBN: 1-4188-3637-0, ISBN-13: 978-1-4188-3637-5 .....	79
<b>Ciampa/Security Awareness: Applying Practical Security in Your World, 3E ISBN: 1-4354-9668-X, ISBN-13: 978-1-4354-9668-2 .....</b>	79
<b>Ciampa/Security+ Guide to Network Security Fundamentals, 3E</b> ISBN: 1-4283-4066-1, ISBN-13: 978-1-4283-4066-4 .....	78
<b>Cooney/RFID+: The Complete Review of Radio Frequency Identification</b> ISBN: 1-4180-5231-0, ISBN-13: 978-1-4180-5231-7 .....	27
<b>Course Technology/A+ Essentials Coursenotes, Exam #220-702 for Andrews' A+ Guide to Managing &amp; Maintaining Your PC, 2E</b> ISBN: 1-4354-8725-7, ISBN-13: 978-1-4354-8725-3 .....	49
<b>Course Technology/A+ Practical Applications Coursenotes, Exam #220- 702 for Andrews' A+ Guide to Managing &amp; Maintaining Your PC, 2E</b> ISBN: 1-4354-8724-9, ISBN-13: 978-1-4354-8724-6 .....	51
<b>Course Technology/Compitia A+ PC Repair Flashcards</b> ISBN: 1-4354-8723-0, ISBN-13: 978-1-4354-8723-9 .....	51
<b>Course Technology/MCITP Guide to Microsoft Windows Server 2008 Enterprise Administration (Exam #70-647)</b> ISBN: 1-4239-0239-4, ISBN-13: 978-1-4239-0239-3 .....	69
<b>Course Technology/MCTS Guide to Configuring Microsoft Windows Server 2008 Applications Platform (Exam #70-643)</b> ISBN: 1-4239-0237-8, ISBN-13: 978-1-4239-0237-9 .....	69
<b>Cox/Fundamentals of Linear Electronics: Integrated and Discrete, 2E ISBN: 0-7668-3018-7, ISBN-13: 978-0-7668-3018-9 .....</b>	12
<b>Cox, Borden/Technician's Guide to Programmable Controllers, 5E</b> ISBN: 1-4018-9007-5, ISBN-13: 978-1-4018-9007-0 .....	30

**D**

<b>Dean/Guide to Telecommunications Technology</b> ISBN: 0-619-03547-1, ISBN-13: 978-0-619-03547-1 .....	24
<b>Dean/Network + Guide to Networks, 4E</b> ISBN: 0-619-21743-X, ISBN-13: 978-0-619-21743-3 .....	62
<b>Delmar Learning/Electronics Into The Future: Circuit Fundamentals (Electron Flow Version) Network Version CD-ROM</b> ISBN: 0-7668-0657-X, ISBN-13: 978-0-7668-0657-3 .....	5
<b>Delmar Learning/Electronics Into The Future: Conventional Flow Student Version CD-ROM</b> ISBN: 1-4018-8850-X, ISBN-13: 978-1-4018-8850-3 .....	5
<b>Diffenderfer/Electronic Devices: Systems &amp; Applications</b> ISBN: 1-4018-3514-7, ISBN-13: 978-1-4018-3514-9 .....	11

<b>DiNicolò, McCann/70-290:</b> MCSE Guide to Managing a Microsoft® Windows® Server 2003 Environment, Enhanced ISBN: 0-619-21752-9, ISBN-13: 978-0-619-21752-5	70
<b>DiPaola/Residential Integrator's Basics</b> ISBN: 1-4180-1407-9, ISBN-13: 978-1-4180-1407-0	39
<b>DiPaola, DiPaola/Introduction to Low Voltage Systems</b> ISBN: 1-4018-5656-X, ISBN-13: 978-1-4018-5656-4	42
<b>Downing/Fiber Optic Communications</b> ISBN: 1-4018-6635-2, ISBN-13: 978-1-4018-6635-8	22
<b>Dti Publishing/Dtimetrics for A+ Guide to Hardware,</b> ISBN: 1-111-2826-X, ISBN-13: 978-1-111-2826-5	49
<b>Dti Publishing/Dtimetrics for A+ Guide to Managing and Maintaining Your PC,</b> ISBN: 1-111-2520-1, ISBN-13: 978-1-111-2520-2	49
<b>Dti Publishing/Dtimetrics for A+ Guide to Software,</b> ISBN: 1-111-2522-8, ISBN-13: 978-1-111-2522-6	49
<b>Dti Publishing/Labconnection for A+ Guide to Hardware</b> ISBN: 1-111-2826-X, ISBN-13: 978-1-111-2826-5	50
<b>Dti Publishing/Labconnection for A+ Guide to Managing and Maintaining Your PC,</b> ISBN: 1-111-2520-1, ISBN-13: 978-1-111-2520-2	50
<b>Dti Publishing/Labconnection for A+ Guide to Software</b> ISBN: 1-111-2522-8, ISBN-13: 978-1-111-2522-8	50
<b>Dueck/Digital Design with CPLD Applications and VHDL, 2E</b> ISBN: 1-4018-4030-2, ISBN-13: 978-1-4018-4030-3	15
<b>Dungan/Electronic Communications Systems, 3E</b> ISBN: 0-8273-8624-9, ISBN-13: 978-0-8273-8624-2	20
<b>Dunning/Introduction to Programmable Logic Controllers, 3E</b> ISBN: 1-4018-8426-1, ISBN-13: 978-1-4018-8426-0	31
<b>E</b>	
<b>Eckert/MCTS Guide to Configuring Microsoft Windows Server 2008 Network Infrastructure (Exam #70-642)</b> ISBN: 1-4239-0236-X, ISBN-13: 978-1-4239-0236-2	69
<b>Eckert/Suse Linux Enterprise Desktop Administration</b> ISBN: 1-4283-2227-2, ISBN-13: 978-1-4283-2227-1	58
<b>Eckert, Schitka/Linux+ Guide to Linux Certification, 3E</b> ISBN: 1-4188-3721-0, ISBN-13: 978-1-4188-3721-1	73
<b>Eckert, Schitka, McCann/70-291:</b> MCSE Guide to Managing a Microsoft® Windows® Server 2003 Network, Enhanced ISBN: 0-619-21753-7, ISBN-13: 978-0-619-21753-2	70
<b>Elahi, Elahi/Data, Network &amp; Internet Communications Technology</b> ISBN: 1-4018-7269-7, ISBN-13: 978-1-4018-7269-4	18
<b>F</b>	
<b>Fenical/Control Systems Technology</b> ISBN: 1-4018-7779-6, ISBN-13: 978-1-4018-7779-8	28
<b>G</b>	
<b>Gaonkar/Fundamentals of Microcontrollers and Applications in Embedded Systems (with the PIC18 Microcontroller family)</b> ISBN: 1-4018-7914-4, ISBN-13: 978-1-4018-7914-3	32
<b>Gates/Introduction to Electronics, 5E</b> ISBN: 1-4018-8900-X, ISBN-13: 978-1-4018-8900-5	3
<b>Goetsch/The Successful Electronics Technician</b> ISBN: 1-4180-6176-X, ISBN-13: 978-1-4180-6176-0	2
<b>Gokhale/Introduction to Telecommunications, 2E</b> ISBN: 1-4018-5648-9, ISBN-13: 978-1-4018-5648-9	23
<b>Graves/Computer Technology Encyclopedia</b> ISBN: 1-4283-2236-1, ISBN-13: 978-1-4283-2236-3	63
<b>Graves/The Complete Guide to Networking and Network+, 2E</b> ISBN: 1-4180-1944-5, ISBN-13: 978-1-4180-1944-0	60
<b>Graves/The Complete Guide To Servers and Server+, 2E</b> ISBN: 1-4180-2023-0, ISBN-13: 978-1-4180-2023-1	77
<b>Graves/The PC Technician's Pocket Field Guide</b> ISBN: 1-4180-1697-7, ISBN-13: 978-1-4180-1697-5	54
<b>Graves/The Practical Guide to CompTia's 2006 A+ Certification: Preparing for CompTia's A+ Essentials and IT Technician Exams</b> ISBN: 1-4283-2241-8, ISBN-13: 978-1-4283-2241-7	54
<b>Grembi/Secure Software Development: A Security Programmer's Guide</b> ISBN: 1-4180-6547-1, ISBN-13: 978-1-4180-6547-8	85
<b>Gruber/Physical and Technical Security: An Introduction</b> ISBN: 1-4018-5066-9, ISBN-13: 978-1-4018-5066-1	94
<b>H</b>	
<b>Hayes/Fiber Optics Technician's Manual, 3E</b> ISBN: 1-4354-9965-4, ISBN-13: 978-1-4354-9965-2	21
<b>Hayes, Rosenberg/Data, Voice, and Video Cabling, 3E</b> ISBN: 1-4283-3472-6, ISBN-13: 978-1-4283-3472-4	25, 41
<b>Herman/Practical Problems in Mathematics for Electronic Technicians, 4E</b> ISBN: 1-4018-2500-1, ISBN-13: 978-1-4018-2500-3	95
<b>Herrick/DC/AC Circuits &amp; Electronics: Principles &amp; Applications</b> ISBN: 0-7668-2083-1, ISBN-13: 978-0-7668-2083-8	9
<b>Holden/Guide To Firewalls and Network Security: Intrusion Detection and VPNs, 2E</b> ISBN: 1-4354-2016-0, ISBN-13: 978-1-4354-2016-8	89
<b>Hollomon, Blackwell/Surface-Mount Technology for PC Boards</b> ISBN: 1-4180-0011-6, ISBN-13: 978-1-4180-0011-0	29
<b>Huang/MC68HC11 An Introduction, 2E</b> ISBN: 0-7668-1600-1, ISBN-13: 978-0-7668-1600-8	36
<b>Huang/MC68HC12 An Introduction: Software &amp; Hardware Interfacing</b> ISBN: 0-7668-3448-4, ISBN-13: 978-0-7668-3448-4	36
<b>Huang/PIC Microcontroller: An Introduction Software &amp; Hardware Interfacing</b> ISBN: 1-4018-3967-3, ISBN-13: 978-1-4018-3967-3	35
<b>Huang/The HCS12/9S12: An Introduction to Software &amp; Hardware Interfacing</b> ISBN: 1-4018-9812-2, ISBN-13: 978-1-4018-9812-0	34
<b>J</b>	
<b>Jacob/Advanced AC Electronics: Principles &amp; Applications</b> ISBN: 0-7668-2330-X, ISBN-13: 978-0-7668-2330-3	9
<b>Jacob/Power Electronics: Principles &amp; Applications</b> ISBN: 0-7668-2332-6, ISBN-13: 978-0-7668-2332-7	17
<b>K</b>	
<b>Kamichik/Designing Power Amplifiers</b> ISBN: 0-7906-1170-8, ISBN-13: 978-0-7906-1170-9	12
<b>Khan/The Telecommunications Fact Book and Illustrated Dictionary, 2E</b> ISBN: 1-4180-1173-8, ISBN-13: 978-1-4180-1173-4	23
<b>Killian/Modern Control Technology, 3E</b> ISBN: 1-4018-5806-6, ISBN-13: 978-1-4018-5806-3	28
<b>Knapp/A Guide to Customer Service Skills for the Help Desk Professional, 2E</b> ISBN: 0-619-21641-7, ISBN-13: 978-0-619-21641-2	55
<b>Kramer/Mathematics for Electricity and Electronics, 3E</b> ISBN: 1-4018-7096-1, ISBN-13: 978-1-4018-7096-6	96
<b>Kronenburger, Sebeson/Analog and Digital Signal Processing: An Integrated Computational Approach with Matlab®</b> ISBN: 1-4180-4173-4, ISBN-13: 978-1-4180-4173-1	37
<b>L</b>	
<b>Lab Mentor/Web-Based Labs Printed Access Card for Andrews' A+ Guide to Managing &amp; Maintaining Your PC, 2e</b> ISBN: 1-4354-8728-1, ISBN-13: 978-1-4354-8728-4	48
<b>Lane, et. al./DSP Filters</b> ISBN: 0-7906-1204-6, ISBN-13: 978-0-7906-1204-1	38
<b>M</b>	
<b>Macia, Thaler/Modeling &amp; Control of Dynamic Systems</b> ISBN: 1-4018-4760-9, ISBN-13: 978-1-4018-4760-9	30
<b>Majumder, Anup/Medical Imaging Systems: Principles, Analysis, and Applications, International Edition</b> ISBN: 1-4018-6267-5, ISBN-13: 978-1-4018-6267-6	43
<b>Meade/Foundations of Electronics, 5E</b> ISBN: 1-4180-0538-X, ISBN-13: 978-1-4180-0538-2	5
<b>Meade/Foundations of Electronics: Circuits &amp; Devices, 2E (Conventional Flow Version)</b> ISBN: 1-4180-0541-X, ISBN-13: 978-1-4180-0541-2	6
<b>Meade/Foundations of Electronics: Circuits &amp; Devices, 5E (Electron Flow Version)</b> ISBN: 1-4180-0537-1, ISBN-13: 978-1-4180-0537-5	6
<b>Meador/Analog Signal Processing with Laplace Transforms and Active Filter Design, 2E</b> ISBN: 0-7668-2818-2, ISBN-13: 978-0-7668-2818-6	38
<b>Merkow, Breithaupt/Computer Security Assurance: Using the Common Criteria</b> ISBN: 1-4180-6265-9, ISBN-13: 978-1-4180-6265-7	94
<b>Miers/Introduction to Local Area Networks</b> ISBN: 1-4180-0058-2, ISBN-13: 978-1-4180-0058-5	76
<b>Miller/Data &amp; Network Communications</b> ISBN: 0-7668-1100-X, ISBN-13: 978-0-7668-1100-3	20
<b>Moussavi/Data Communication and Networking</b> ISBN: 1-1111-2504-X, ISBN-13: 978-1-1111-2504-2	23
<b>Mullett/Basic Telecommunications: The Physical Layer</b> ISBN: 1-4018-4339-5, ISBN-13: 978-1-4018-4339-7	24
<b>Mullett/Wireless Telecommunications Systems and Networks</b> ISBN: 1-4018-8659-0, ISBN-13: 978-1-4018-8659-2	25



- N**
- Nelson, Phillips, Enfinger, Steuart**/Guide to Computer Forensics and Investigations, 4E  
ISBN: 1-4354-9883-6, ISBN-13: 978-1-4354-9883-9 .....80
- Newman**/Security and Access Control Using Biometric Technologies, International Edition, ISBN: 1-4354-9667-1, ISBN-13: 978-1-4354-9667-5 .....92
- Nichols**/Applied Programmable Logic Controllers Laboratory Manual  
ISBN: 1-4018-9967-6, ISBN-13: 978-1-4018-9967-7 .....31
- Novell, Eckert**/Advanced SUSE Linux Enterprise Server Administration (Course 3038)  
ISBN: 1-4188-3732-6, ISBN-13: 978-1-4188-3732-7 .....57
- Novell, Eckert**/Getting Started with Linux: Novell's Guide to CompTIA's Linux+ (Course 3060)  
ISBN: 1-4188-3730-X, ISBN-13: 978-1-4188-3730-3 .....56
- Novell, Eckert**/SUSE Linux Enterprise Server Administration (Course 3037) ISBN: 1-4188-3731-8, ISBN-13: 978-1-4188-3731-0 .....57
- Novell, Eckert**/SUSE Linux Enterprise Server Security  
ISBN: 1-4283-2223-X, ISBN-13: 978-1-4283-2223-3 .....59
- O**
- Olenewa, Ciampa**/Wireless# Guide to Wireless Communications, 2E  
ISBN: 1-4188-3699-0, ISBN-13: 978-1-4188-3699-3 .....19
- P**
- Palmer**/Guide To Designing & Implementing Local and Wide Area Networks, 2E ISBN: 0-619-12122-X, ISBN-13: 978-0-6191-2122-8 .....77
- Palmer**/Guide to Operating Systems Security  
ISBN: 0-619-16040-3, ISBN-13: 978-0-6191-6040-1 .....90
- Palmer/A** Guide to UNIX Using Linux, 4E  
ISBN: 1-4188-3723-7, ISBN-13: 978-1-4188-3723-5 .....73
- Palmer**/Hands-On Microsoft Windows Server 2008 Administration  
ISBN: 1-4239-0234-3, ISBN-13: 978-1-4239-0276-8 .....69
- Palmer**/Hands-On Networking Fundamentals  
ISBN: 1-4188-3554-4, ISBN-13: 978-1-4188-3554-5 .....60
- Palmer**/MCITP Guide to Microsoft Windows Server 2008 Administration (Exam #70-646) ISBN: 1-4239-0238-6, ISBN-13: 978-1-4239-0238-6 .....69
- Palmer, Walters**/Guide to Operating Systems, Enhanced Edition  
ISBN: 1-4188-3719-9, ISBN-13: 978-1-4188-3719-8 .....72
- Pardoe, Snyder**/Network Security  
ISBN: 1-4018-8214-5, ISBN-13: 978-1-4018-8214-3 .....84
- Perry**/Developing Professional Information Security Competencies  
ISBN: 1-4180-4204-8, ISBN-13: 978-1-4180-4204-2 .....81
- Peterson**/Technical Mathematics, 3E  
ISBN: 0-7668-6188-0, ISBN-13: 978-0-7668-6188-6 .....97
- Peterson**/Technical Mathematics with Calculus, 3E  
ISBN: 0-7668-6189-9, ISBN-13: 978-0-7668-6189-3 .....97
- R**
- Reeder**/Using MultiSIM 9: Troubleshooting DC/AC Circuits, 4E  
ISBN: 1-4180-6336-3, ISBN-13: 978-1-4180-6336-8 .....8
- Reeder**/Using MultiSIM™: Digital Electronics  
ISBN: 0-7668-1269-3, ISBN-13: 978-0-7668-1269-7 .....16
- Reid, Dueck**/Introduction to Digital Electronics  
ISBN: 1-4180-4102-5, ISBN-13: 978-1-4180-4102-1 .....13
- Robbins, Miller**/Circuit Analysis: Theory and Practice, 4E  
ISBN: 1-4180-3861-X, ISBN-13: 978-1-4180-3861-8 .....7
- Routt**/Microprocessor Architecture, Programming, and Systems Featuring the 8085 ISBN: 1-4180-3241-7, ISBN-13: 978-1-4180-3241-8 .....33
- S**
- Sapijaszko**/eTCB (Electronics Trainer Circuit Board) System: DC/AC Circuits Lab Manual  
ISBN: 1-4018-3979-7, ISBN-13: 978-1-4018-3979-6 .....10
- Sawicki, Wells**/Advanced Guide to Linux Networking and Security  
ISBN: 1-4188-3539-0, ISBN-13: 978-1-4188-3539-2 .....74
- Shipley**/Installer's Guide to Local Area Networks  
ISBN: 0-7668-3374-7, ISBN-13: 978-0-7668-3374-6 .....76
- Simons**/Technician's Guide to Instrumentation  
ISBN: 1-930528-14-0, ISBN-13: 978-1-930528-14-7 .....29
- Simpson**/Hands-On Ethical Hacking and Network Defense, International Edition, 2E  
ISBN: 1-4354-9665-5, ISBN-13: 978-1-4354-9665-1 .....87
- Simpson**/Hands-On Novell® NetWare® 6.0/6.5, Enhanced Edition  
ISBN: 0-619-21545-3, ISBN-13: 978-0-6192-1545-3 .....75
- Simpson**/Hands-On Novell® Open Enterprise Server for NetWare® and Linux ISBN: 1-4188-3531-5, ISBN-13: 978-1-4188-3531-6 .....75
- Simpson**/Virtual Machines Companion  
ISBN: 1-4283-2194-2, ISBN-13: 978-1-4283-2194-6 .....67
- Simpson, DiNicolo, Stewart, Tittel**/70-270, 70-290: MCSE/MCISA Guide to Installing and Managing Microsoft® Windows® XP Professional and Windows Server 2003  
ISBN: 0-619-21749-9, ISBN-13: 978-0-6192-1749-5 .....70
- Simpson, Simpson**/Guide to Novell® Netware® 6/6.5 Administration, Enhanced Edition  
ISBN: 0-619-21543-7, ISBN-13: 978-0-6192-1543-9 .....75
- Sinn**/Software Security Technologies: A Programmatic Approach  
ISBN: 1-4283-1945-X, ISBN-13: 978-1-4283-1945-5 .....85
- Smith**/Quality Hand Soldering and Circuit Board Repair, 5E  
ISBN: 1-4283-2199-3, ISBN-13: 978-1-4283-2199-1 .....29
- Smith, Peterson**/Introductory Technical Mathematics, 5E Softcover ISBN: 1-4180-1543-1, ISBN-13: 978-1-4180-1543-5, Hardcover ISBN: 1-4180-1545-8, ISBN-13: 978-1-4180-1545-9 .....96
- Snyder**/Introduction to Telecommunications Networks  
ISBN: 1-4018-6486-4, ISBN-13: 978-1-4018-6486-6 .....24
- Stanley**/Technical Analysis and Applications with MATLAB  
ISBN: 1-4018-6481-3, ISBN-13: 978-1-4018-6481-1 .....97
- Stanley, Hackworth, Jones**/Fundamentals of Electrical Engineering and Technology ISBN: 1-4180-0020-5, ISBN-13: 978-1-4180-0020-2 .....3
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ISBN: 1-4180-0003-5, ISBN-13: 978-1-4180-0003-5 .....18
- Sterling**/Technician's Guide to Fiber Optics, 4E  
ISBN: 1-4018-1270-8, ISBN-13: 978-1-4018-1270-6 .....22
- Sterling, Baxter**/Premises Cabling, 3E  
ISBN: 1-4018-9820-3, ISBN-13: 978-1-4018-9820-5 .....41
- Sterling, Wissler**/The Industrial Ethernet Networking Guide  
ISBN: 0-7668-4210-X, ISBN-13: 978-0-7668-4210-6 .....30
- Stewart**/MCDST Guide to Supporting Users and Troubleshooting a Microsoft Windows XP Operating System (Exam #70-271)  
ISBN: 0-619-21604-2, ISBN-13: 978-0-6192-1604-7 .....55
- T**
- Taylor**/Residential Integrator's Customer Relations  
ISBN: 1-4180-1413-3, ISBN-13: 978-1-4180-1413-1 .....39
- Terrell**/Electronics for Computer Technology  
ISBN: 0-7668-3872-2, ISBN-13: 978-0-7668-3872-7 .....4
- Terrell**/Fundamentals of Electronics:DC/AC Circuits  
ISBN: 0-8273-5340-5, ISBN-13: 978-0-8273-5340-4 .....4
- TestOut! Corp.**/LABSIM for A+ Essentials  
ISBN: 1-4180-7305-9, ISBN-13: 978-1-4180-7305-3 .....52
- TestOut! Corp.**/LABSIM for A+ IT Technician/#220-602  
ISBN: 1-4180-7306-7, ISBN-13: 978-1-4180-7306-0 .....52
- Tomsho**/MCTS Guide to Configuring Microsoft Windows Server 2008 Active Directory (Exam #70-640)  
ISBN: 1-4239-0235-1, ISBN-13: 978-1-4239-0235-5 .....69
- Tomsho, Tittel, Johnson**/Guide To Networking Essentials, 5E  
ISBN: 1-4188-3718-0, ISBN-13: 978-1-4188-3718-1 .....61
- V**
- Verge**/Practical Problems in Mathematics for Information Technology  
ISBN: 1-4283-2200-0, ISBN-13: 978-1-4283-2200-4 .....95
- W**
- Weaver**/Guide To Strategic Infrastructure Security: Becoming a Security Network Professional ISBN: 1-4188-3661-3, ISBN-13: 978-1-4188-3661-0 .....91
- Weaver**/Guide to IPv6: Understanding, Analysis & Implementation  
ISBN: 1-4283-2239-6, ISBN-13: 978-1-4283-2239-4 .....63
- Weaver**/Guide to Network Defense and Countermeasures, 2E  
ISBN: 1-4188-3679-6, ISBN-13: 978-1-4188-3679-5 .....90
- Weaver, Weaver**/Guide to Tactical Perimeter Defense: Becoming a Security Network Specialist  
ISBN: 1-4283-5630-4, ISBN-13: 978-1-4283-5630-6 .....91
- Wells**/Residential Integrator's Guide to Digital Home Technology Integration ISBN: 1-4354-0062-3, ISBN-13: 978-1-4354-0062-7 .....41
- Wells**/The Complete Guide to Linux System Administration  
ISBN: 0-619-21616-6, ISBN-13: 978-0-6192-1616-0 .....74
- White**/Digital Signal Processing  
ISBN: 0-7668-1531-5, ISBN-13: 978-0-7668-1531-5 .....38
- Whitman, Mattord**/Management of Information Security, 3E  
ISBN: 0-8400-3160-2, ISBN-13: 978-0-8400-3160-0 .....86

<b>Whitman, Mattord/Principles of Incident Response and Disaster Recovery</b> ISBN: 1-4188-3663-X, ISBN-13: 978-1-4188-3663-4	93
<b>Whitman, Mattord/Principles of Information Security, 3E</b> ISBN: 1-4239-0177-0, ISBN-13: 978-1-4239-0177-8	83
<b>Whitman, Mattord/Readings and Cases in the Information Security: Law &amp; Ethics</b> ISBN: 1-4354-4157-5, ISBN-13: 978-1-4354-4157-6	88
<b>Whitman, Mattord/Readings and Cases in the Management of Information Security</b> ISBN: 0-619-21627-1, ISBN-13: 978-0-6192-1627-6	89
<b>Whitman, Mattord, Shackleford/Hands-On Information Security Lab Manual, 2E</b> ISBN: 0-619-21631-X, ISBN-13: 978-0-619-21631-3	83
<b>Wiesenfeld/Wiring for Wireless Sites</b> ISBN: 1-4018-1037-3, ISBN-13: 978-1-4018-1037-5	20
<b>Wise/Applied Robotics I</b> ISBN: 0-7906-1184-8, ISBN-13: 978-0-7906-1184-6	30
<b>Wise/Applied Robotics II</b> ISBN: 0-7906-1222-4, ISBN-13: 978-0-7906-1222-5	30
<b>Wright/70-298: MCSE Guide to Designing Security for Microsoft® Windows® Server 2003 Network</b> ISBN: 0-619-12021-5, ISBN-13: 978-0-6191-2021-4	71
<b>Wright, DiNicolo, Chambers/70-284: 570-284: MCSE Guide to Microsoft® Exchange Server 2003 Administration</b> ISBN: 0-619-12127-0, ISBN-13: 978-0-6191-2127-3	70
<b>Wright, McCann/70-293: MCSE Guide to Planning a Microsoft® Windows® Server 2003 Network, Enhanced</b> ISBN: 0-619-21754-5, ISBN-13: 978-0-6192-1754-9	71
<b>Wright, Plesniarski/MCSE Guide to Microsoft® Windows® Vista</b> ISBN: 1-4188-3726-1, ISBN-13: 978-1-4188-3726-6	68

## TITLE INDEX

<b>70-270, 70-290: MCSE/MCSA Guide to Installing and Managing Microsoft® Windows® XP Professional and Windows Server 2003/Simpson, DiNicolo, Stewart, Tittel</b> ISBN: 0-619-21749-9, ISBN-13: 978-0-6192-1749-5	70
<b>70-284: 570-284: MCSE Guide to Microsoft® Exchange Server 2003 Administration/Wright, DiNicolo, Chambers</b> ISBN: 0-619-12127-0, ISBN-13: 978-0-6191-2127-3	70
<b>70-290: MCSE Guide to Managing a Microsoft® Windows® Server 2003 Environment, Enhanced/DiNicolo, McCann</b> ISBN: 0-619-21752-9, ISBN-13: 978-0-619-21752-5	70
<b>70-291: MCSE Guide to Managing a Microsoft® Windows® Server 2003 Network, Enhanced/Eckert, Schitka, McCann</b> ISBN: 0-619-21753-7, ISBN-13: 978-0-619-21753-2	70
<b>70-293: MCSE Guide to Planning a Microsoft® Windows® Server 2003 Network, Enhanced/Wright, McCann</b> ISBN: 0-619-21754-5, ISBN-13: 978-0-6192-1754-9	71
<b>70-294: MCSE Guide to Microsoft® Windows® Server 2003 Active Directory, Enhanced/Aubert, McCann</b> ISBN: 0-619-21755-3, ISBN-13: 978-0-619-21755-6	71
<b>70-297: MCSE Guide to Designing a Microsoft® Windows® Server 2003 Active Directory and Network Infrastructure/Adamson</b> ISBN: 0-619-12026-6, ISBN-13: 978-0-619-12026-9	71
<b>70-298: MCSE Guide to Designing Security for Microsoft® Windows® Server 2003 Network/Wright</b> ISBN: 0-619-12021-5, ISBN-13: 978-0-6191-2021-4	71
<b>70-299: MCSE Guide to Implementing and Administering Security in a Microsoft® Windows® Server 2003 Network/Barrett, Ferguson</b> ISBN: 0-619-21713-8, ISBN-13: 978-0-619-21713-6	71

## A

<b>A Guide to Customer Service Skills for the Help Desk Professional, 2E/Knapp</b> ISBN: 0-619-21641-7, ISBN-13: 978-0-6192-1641-2	55
<b>A Guide to UNIX Using Linux, 4E/Palmer</b> ISBN: 1-4188-3723-7, ISBN-13: 978-1-4188-3723-5	73
<b>A+ Essentials Coursenotes, Exam #220-702 for Andrews' A+ Guide to Managing &amp; Maintaining Your PC, 2E/Course Technology</b> ISBN: 1-4354-8725-7, ISBN-13: 978-1-4354-8725-3	49
<b>A+ Guide to Hardware: Managing, Maintaining and Troubleshooting, International Edition, 5E/Andrews</b> ISBN: 1-4354-8703-6, ISBN-13: 978-1-4354-8703-6	46
<b>A+ Guide to Managing and Maintaining Your PC, International Edition, 7E/Andrews</b> ISBN: 1-4354-8704-4, ISBN-13: 978-1-4354-8704-8	45
<b>A+ Guide to Software: Managing, Maintaining and Troubleshooting, International Edition, 5E/Andrews</b> ISBN: 1-4354-8702-8, ISBN-13: 978-1-4354-8702-4	47
<b>A+ Practical Applications Coursenotes, Exam #220-702 for Andrews' A+ Guide to Managing &amp; Maintaining Your PC, 2E/Course Technology</b> ISBN: 1-4354-8724-9, ISBN-13: 978-1-4354-8724-6	51
<b>A+ Troubleshooting Scenarios/Andrews</b> ISBN: 1-4283-2045-8, ISBN-13: 978-1-4283-2045-1	52
<b>Advanced AC Electronics: Principles &amp; Applications/Jacob</b> ISBN: 0-7668-2330-X, ISBN-13: 978-0-7668-2330-3	9
<b>Advanced Digital Systems: Experiments and Concepts with CPLDs/Chartrand</b> ISBN: 1-4018-6636-0, ISBN-13: 978-1-4018-6636-5	16
<b>Advanced Guide to Linux Networking and Security/Sawicki, Wells</b> ISBN: 1-4188-3539-0, ISBN-13: 978-1-4188-3539-2	74
<b>Advanced SUSE Linux Enterprise Server Administration (Course 3038)/Novell, Eckert</b> ISBN: 1-4188-3732-6, ISBN-13: 978-1-4188-3732-7	57
<b>Analog and Digital Signal Processing: An Integrated Computational Approach with Matlab®/Kronenburger, Sebeson</b> ISBN: 1-4180-4173-4, ISBN-13: 978-1-4180-4173-1	37
<b>Analog Signal Processing with Laplace Transforms and Active Filter Design, 2E/Meador</b> ISBN: 0-7668-2818-2, ISBN-13: 978-0-7668-2818-6	38
<b>Applied Programmable Logic Controllers Laboratory Manual/Nichols</b> ISBN: 1-4018-9967-6, ISBN-13: 978-1-4018-9967-7	31
<b>Applied Robotics I/Wise</b> ISBN: 0-7906-1184-8, ISBN-13: 978-0-7906-1184-6	30
<b>Applied Robotics II/Wise</b> ISBN: 0-7906-1222-4, ISBN-13: 978-0-7906-1222-5	30

**B**

- Basic Telecommunications: The Physical Layer**/Mullett  
ISBN: 1-4018-4339-5, ISBN-13: 978-1-4018-4339-7 .....24
- Biomedical Instrumentation Systems**/Chatterjee  
ISBN: 1-4180-1866-X, ISBN-13: 978-1-4180-1866-5 .....43

**C**

- CCNA Self-Study Guide, 2E (Exam #640-801)**/Chiarella  
ISBN: 1-4180-0574-6, ISBN-13: 978-1-4180-0574-0 .....66
- Circuit Analysis: Theory and Practice, 4E**/Robbins, Miller  
ISBN: 1-4180-3861-X, ISBN-13: 978-1-4180-3861-8 .....7
- Circuit Analysis Essentials: A Signal Processing Approach**/Bryant  
ISBN: 1-4018-5041-3, ISBN-13: 978-1-4018-5041-8 .....8
- CMOS Sourcebook**/Braga  
ISBN: 0-7906-1234-8, ISBN-13: 978-0-7906-1234-8 .....12
- Complete Guide to CISCO Networking Fundamentals**/Cannon, Caudle  
ISBN: 1-4188-3705-9, ISBN-13: 978-1-4188-3705-1 .....65
- CompTia Network+ Self-Study Guide, 2E**/Chiarella  
ISBN: 1-4180-0933-4, ISBN-13: 978-1-4180-0933-5 .....61
- Computer Security Assurance: Using the Common Criteria**/Merkow, Breithaupt  
ISBN: 1-4018-6265-9, ISBN-13: 978-1-4018-6265-7 .....94
- Computer Security and Penetration Testing**/Basta, Halton  
ISBN: 1-4180-4826-7, ISBN-13: 978-1-4180-4826-6 .....82
- Computer Technology Encyclopedia**/Graves  
ISBN: 1-4283-2236-1, ISBN-13: 978-1-4283-2236-3 .....63
- Control Systems Technology**/Fenical  
ISBN: 1-4018-7779-6, ISBN-13: 978-1-4018-7779-8 .....28
- CompTia A+ PC Repair Flashcards**/Course Technology  
ISBN: 1-4354-8723-0, ISBN-13: 978-1-4354-8723-9 .....51
- Cryptographic Principles and Applications**/Calabrese  
ISBN: 1-4283-3640-0, ISBN-13: 978-1-4283-3640-7 .....84
- CWNA Guide to Wireless LANs, 2E**/Ciampa  
ISBN: 0-619-21579-8, ISBN-13: 978-0-619-21579-8 .....77
- CWSP Guide to Wireless Security**/Ciampa  
ISBN: 1-4188-3637-0, ISBN-13: 978-1-4188-3637-5 .....79

**D**

- Data Communication and Networking**/Moussavi  
ISBN: 1-1111-2504-X, ISBN-13: 978-1-1111-2504-2 .....23
- Data & Network Communications**/Miller  
ISBN: 1-1111-2504-X, ISBN-13: 978-1-1111-2504-2 .....23
- Data & Network Communications**/Miller  
ISBN: 0-7668-1100-X, ISBN-13: 978-0-7668-1100-3 .....20
- Data, Network & Internet Communications Technology**/Elahi, Elahi  
ISBN: 1-4018-7269-7, ISBN-13: 978-1-4018-7269-4 .....18
- Data, Voice, and Video Cabling, 3E**/Hayes, Rosenberg  
ISBN: 1-4283-3472-6, ISBN-13: 978-1-4283-3472-4 .....25, 41
- Database Security and Auditing: Protecting Data Integrity and Accessibility**/Afyouni  
ISBN: 0-619-21559-3, ISBN-13: 978-0-619-21559-0 .....93
- DC/AC Circuits & Electronics: Principles & Applications**/Herrick  
ISBN: 0-7668-2083-1, ISBN-13: 978-0-7668-2083-8 .....9
- Designing Power Amplifiers**/Kamichik  
ISBN: 0-7906-1170-8, ISBN-13: 978-0-7906-1170-9 .....12
- Developing Professional Information Security Competencies**/Perry  
ISBN: 1-4180-4204-8, ISBN-13: 978-1-4180-4204-2 .....81
- Digital Design with CPLD Applications and VHDL, 2E**/Dueck  
ISBN: 1-4018-4030-2, ISBN-13: 978-1-4018-4030-3 .....15
- Digital Electronics, 5E**/Bignell, Donovan  
ISBN: 1-4180-2026-5, ISBN-13: 978-1-4180-2026-2 .....14
- Digital Fundamentals: Experiments and Concepts with CPLDs**/Chartrand  
ISBN: 1-4018-4246-1, ISBN-13: 978-1-4018-4246-8 .....15
- Digital Signal Processing**/White  
ISBN: 0-7668-1531-5, ISBN-13: 978-0-7668-1531-5 .....38
- DSP Filters**/Lane, et al.  
ISBN: 0-7906-1204-6, ISBN-13: 978-0-7906-1204-1 .....38
- Dtimetrics for A+ Guide to Hardware**/Dti Publishing  
ISBN: 1-4354-8730-3, ISBN-13: 978-1-4354-8730-7 .....49
- Dtimetrics for A+ Guide to Software**/Dti Publishing  
ISBN: 1-4354-8729-X, ISBN-13: 978-1-4354-8729-1 .....49
- Dtimetrics for A+ Guide to Managing and Maintaining Your PC**/Dti Publishing  
ISBN: 1-4354-8731-1, ISBN-13: 978-1-4354-8731-4 .....49

**E**

- Electronic Communication Systems, 2E**/Blake  
ISBN: 0-7668-2684-8, ISBN-13: 978-0-7668-2684-7 .....19
- Electronic Communications Systems, 3E**/Dungan  
ISBN: 0-8273-8624-9, ISBN-13: 978-0-8273-8624-2 .....20
- Electronic Communications: Principles and Systems**/Stanley, Jeffords  
ISBN: 1-4180-0003-5, ISBN-13: 978-1-4180-0003-5 .....18
- Electronic Devices: Systems & Applications**/Diffenderfer  
ISBN: 1-4018-3514-7, ISBN-13: 978-1-4018-3514-9 .....11
- Electronics for Computer Technology**/Terrell  
ISBN: 0-7668-3872-2, ISBN-13: 978-0-7668-3872-7 .....4
- Electronics Into The Future: Circuit Fundamentals (Electron Flow Version) Network Version CD-ROM**/Delmar Learning  
ISBN: 0-7668-0657-X, ISBN-13: 978-0-7668-0657-3 .....5
- Student Version CD-ROM**  
ISBN: 0-7668-0659-6, ISBN-13: 978-0-7668-0659-7 .....5
- Electronics Into The Future: Conventional Flow Student Version CD-ROM**/Delmar Learning  
ISBN: 1-4018-8850-X, ISBN-13: 978-1-4018-8850-3 .....5
- eTCB (Electronics Trainer Circuit Board) System: DC/AC Circuits**/Sapijaszko  
ISBN: 1-4018-3979-7, ISBN-13: 978-1-4018-3979-6 .....10
- Embedded C Programming and the Atmel AVR, 2E**/Barnett, Cox, O'Cull  
ISBN: 1-4180-3959-4, ISBN-13: 978-1-4180-3959-2 .....33
- Embedded C Programming and the Microchip PIC**/Barnett, Cox, O'Cull  
ISBN: 1-4018-3748-4, ISBN-13: 978-1-4018-3748-8 .....36
- Experiments in DC/AC Circuits with Concepts**/Baker  
ISBN: 0-7668-4035-2, ISBN-13: 978-0-7668-4035-5 .....4

**F**

- Fiber Optic Communications**/Downing  
ISBN: 1-4018-6635-2, ISBN-13: 978-1-4018-6635-8 .....22
- Fiber Optics Technician's Manual, 3E**/Hayes  
ISBN: 1-4354-9965-4, ISBN-13: 978-1-4354-9965-2 .....21
- Fixing Windows® Vista**/Andrews  
ISBN: 1-4283-2043-1, ISBN-13: 978-1-4283-2043-7 .....53
- Fixing Windows® XP**/Andrews  
ISBN: 1-4188-3702-4, ISBN-13: 978-1-4188-3702-0 .....53
- Foundations of Electronics, 5E**/Meade  
ISBN: 1-4180-0538-X, ISBN-13: 978-1-4180-0538-2 .....5
- Foundations of Electronics: Circuits & Devices, 2E (Conventional Flow Version)**/Meade  
ISBN: 1-4180-0541-X, ISBN-13: 978-1-4180-0541-2 .....6
- Foundations of Electronics: Circuits & Devices, 5E (Electron Flow Version)**/Meade  
ISBN: 1-4180-0537-1, ISBN-13: 978-1-4180-0537-5 .....6
- Fundamentals of Electrical Engineering and Technology**/Stanley, Hackworth, Jones  
ISBN: 1-4180-0020-5, ISBN-13: 978-1-4180-0020-2 .....3
- Fundamentals of Electronics: DC/AC Circuits**/Terrell  
ISBN: 0-8273-5340-5, ISBN-13: 978-0-8273-5340-4 .....4
- Fundamentals of Linear Electronics: Integrated and Discrete, 2E**/Cox  
ISBN: 0-7668-3018-7, ISBN-13: 978-0-7668-3018-9 .....12
- Fundamentals of Microcontrollers and Applications in Embedded Systems (with the PIC18 Microcontroller family)**/Gaoankar  
ISBN: 1-4018-7914-4, ISBN-13: 978-1-4018-7914-3 .....32

**G**

- Getting Started with Linux: Novell's Guide to CompTIA's Linux+ (Course 3060)**/Novell, Eckert  
ISBN: 1-4188-3730-X, ISBN-13: 978-1-4188-3730-3 .....56
- Guide To Designing & Implementing Local and Wide Area Networks, 2E**/Palmer  
ISBN: 0-619-12122-X, ISBN-13: 978-0-619-12122-8 .....77
- Guide To Electronic Surveillance Devices**/Berquist  
ISBN: 0-7906-1245-3, ISBN-13: 978-0-7906-1245-4 .....90
- Guide To Firewalls and Network Security: Intrusion Detection and VPNs, 2E**/Holden  
ISBN: 1-4354-2016-0, ISBN-13: 978-1-4354-2016-8 .....89
- Guide to IPv6: Understanding, Analysis & Implementation**/Weaver  
ISBN: 1-4283-2239-6, ISBN-13: 978-1-4283-2239-4 .....63
- Guide to Microsoft® Virtual PC 2007 and Virtual Server 2005**/Carswell, Webb  
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