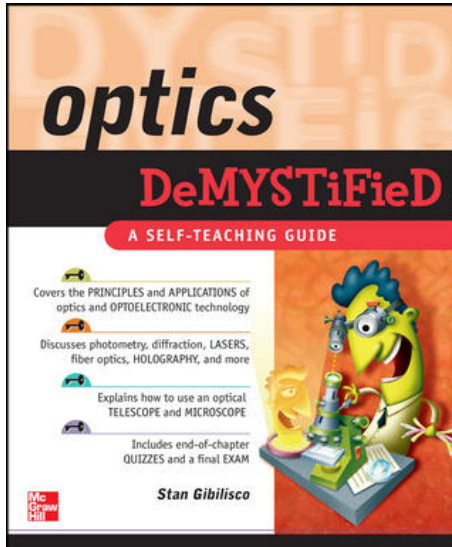


Optics Demystified

Stan Gibilisco

Imprint: McGraw-Hill Professional



Pub Date: August 2009
ISBN: 9780071494496
Format: Soft cover
Subject Area: Electrical and Electronic Engineering
Pages: 350 - Illustrations: 125
Trim: 18.7 x 23.5cm

Price: AUS\$42.95 / NZ\$48.00

Description

A self-teaching guide for students who want to learn the principles and applications of optics and optoelectronic technology.

The perfect supplement to the standard optics textbook, *Optics Demystified* uses the proven Demystified format and pedagogy to ease readers into learning complex topics, covering microscope construction, photometry, diffraction, lasers, fibre optics, holography and optical communication. The book provides an overview of all the sub-fields within optics, allowing readers to sample various topics before proceeding to more complex and specialised study. Detailed examples and concise explanations make it easy to understand the material and end-of-chapter quizzes and a final exam help reinforce learning.

Key Features

- Follow standard curricula in optics.
- Teaches how to experiment with optical communication systems.
- Explores the use of holograms and lasers.

- Explains how to master using an optical telescope and microscope.
- Each chapter contains a 10-question quiz at the end and the book has a 100-question final exam so readers can test their knowledge.
- SI units throughout.

Market

Students of Optics, Engineering, Physics, Electronics and Communication Engineers and Technicians and Military Personnel.

Table of Contents

- Chapter 1: The Visible Spectrum
- Chapter 2: Geometrical Optics
- Chapter 3: Microscopes and Telescopes
- Chapter 4: Cameras and Projectors
- Chapter 5: Photometry
- Chapter 6: Polarisation, Diffraction and Dispersion
- Chapter 7: Lasers
- Chapter 8: Photoelectric Transducers
- Chapter 9: Modulation & Demodulation
- Chapter 10: Fibre Optics
- Chapter 11: Optical Space Communication
- Chapter 12: Interferometry
- Chapter 13: Spectroscopy
- Chapter 14: Holography

Author Biography

Stan Gibilisco is the 'father' of the Demystified series. He is the author of 14 Demystified books, which include Physics Demystified, Geometry Demystified and Statistics Demystified. Other titles that have been exceptionally successful include Teach Yourself Electricity and Electronics (all four editions), The TAB Encyclopaedias for Technicians and The Illustrated Dictionary of Electronics

Design for Environment: A Guide to Sustainable Product Development, 2/e

Joseph Fiksel

Imprint: McGraw-Hill Professional



Pub Date: August 2009

ISBN: 9780071605564

Previous Edition ISBN:

9780070209725

Format: Hardback

Subject Area:

Industrial/Manufacturing

Engineering

Pages: 400 - Illustrations: 80

Trim: 15.2 x 22.9cm

Price: AUS\$220.00 x NZ\$230.00

Description

Design for Environment introduces guidelines for designing products and their manufacturing processes to improve financial performance while benefiting the global environment. Learn from the practical examples of major corporations.

This book presents the motivation and accepted methods for a business practice called Design for Environment (DFE), drawing upon the experiences of dozens of major U.S. corporations. DFE has become a key element of new product development because of rising concerns about corporate environmental responsibility. This book provides a unifying framework, based on sound management principles by which companies can simultaneously improve their financial performance and benefit the global environment. At the heart of this approach is the concept of 'eco-efficiency,' a measurable characteristic of products and processes that quantifies how companies generate more value with less adverse environmental impact.

The purpose of the book is to provide both an informative introduction and a useful primary reference to those who wish to understand and practice DFE. It contains many concrete techniques, guidelines and examples that will help educate product development teams, both veterans and novices, about the practical aspects of DFE. The book emphasizes a life-cycle approach, which considers the costs and benefits associated with material acquisition, transportation, production, product use and recovery for recycling or remanufacture. For the benefit of more senior managers, the book also provides a sweeping overview of the cultural, political and economic changes that are transforming the role of environmental management in the business world.

Key Features

- Uses a non-technical, jargon-free writing style.
- Includes many anecdotal examples and graphical illustrations
- Presents ample industry-based implementation examples.

Market

Industrial Engineers, Manufacturing Engineers, Manufacturing Architects, Product Designer, Production Process Management, Discreet Manufacturing Production Managers and Environmental Engineers.

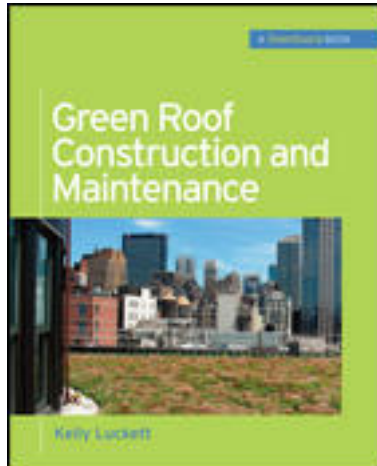
Author Biography

Dr. Joseph Fiksel is executive director of the Centre for Resilience at The Ohio State University, an interdisciplinary research centre that is developing a unified approach for modelling risk, resilience and sustainability in complex systems. As senior research scientist for Integrated Systems Engineering, he engages in collaboration with companies, government agencies, non-profits and other research organizations to develop new methods and tools for understanding the interdependence among social, environmental and economic interests. Dr. Fiksel is also co-founder and principal of the consulting firm Eco-Nomics LLC and is an internationally recognized authority on sustainable business practices.

Green Roof Construction and Maintenance (GreenSource Books)

Kelly Luckett

Imprint: McGraw-Hill professional



Pub Date: August 2009

ISBN: 9780071608800

Format: Hardcover

Subject Area: Architecture

Pages: 208 - Illustrations: 50

Trim: 18.7 x 23.5cm

Price: AUS\$105.00/ NZ\$115.00

Description

From the U.S. Food and Drug Administration building in Washington, D.C. to Heinz's corporate headquarters in Pittsburgh to Chicago's City Hall, an increasing number of buildings are trading in their traditional roofs for green roofs. Green—or vegetated—roofs replace vegetated footprints that are destroyed when buildings are constructed. They utilise wasted space and offer urban dwellers a connection to nature and a place to grow fruits, vegetables, plants, and flowers; however, the benefits extend far beyond these. Green roofs...are green! They are an emerging feature in the sustainability movement. Soil and plants placed on tops of buildings, green roofs: reduce the amount of storm water that surges into sewer systems (absorbing as much as 45-60% of rain water; traditional roofs absorb only 5%); mitigate the effects of the heat of the sun on a building's surface, resulting in reduced energy costs; aid in moisture evaporation; and prolong roof life by as many as 25 years.

Green Roof Construction and Maintenance, written by an industry expert, details the benefits of these beautiful and sustainable building features, and provides step-by-step guidance on their design and construction, as well as important information regarding maintenance.

Key Features

- Written by an industry expert who has installed more than 50 green roofs.
- Construction techniques for new and existing buildings.
- Details all aspects of green roof design and construction.
- Presents best practices for green roof maintenance.
- Illustrations detail various stages of construction.
- Color photographs of successfully installed green roofs.
- SI units.

Market

Contractors, property developers, construction professionals

Author Biography

Kelley Luckett, LEED AP, is president of Saint Louis Metal works, a provider of sheet metal roof accessories and metal roofing. In 2004, his company launched the Green Roof Blocks product line and has since installed more than 50 green roofs, most notably at colleges and universities. He has published newsletter and magazine articles and is a member of Green Roofs for Healthy Cities, a rapidly growing not-for-profit industry association working to promote green roofs throughout North America.

Construction Administration for Architects

Greg Winkler, Gary Chiumento
Imprint: McGraw-Hill Professional



Pub Date: August 2009
ISBN: 9780071622318
Format: Soft cover
Subject Area: Planning
Pages: 256 - Illustrations: 50
Trim: 15.2 x 22.9cm

Price: AUS\$105.00 / NZ \$115.00

Description

This is the ideal desk-top architectural guide to navigating the construction process and anticipating, avoiding and managing liability risks.

Design professionals must deal with a wide range of challenges once construction begins, including: change orders, drawing interpretations, requests for substitutions, requests for information, owner-requested changes, details that don't work, products that aren't available, hidden conditions and contractor delay claims. Construction administration (CA) is easily the most hazard-prone aspect of an architect's job.

Filled with useful forms, checklists and real-life examples, *Construction Administration for Architects* shows design professionals how to navigate the liability minefield of construction. Laced with real-life examples, it leads the architect through a typical project from contract to closeout illustrating such topics as how to spot problems before they occur, how to mitigate change orders and disputes and how to use submittals and RFI's. Co-written by an architect and an attorney, the book provides basic information for

emerging professionals and in-depth strategies for experienced industry veterans.

Key Features

- Shows design professionals how to anticipate, avoid and manage liability risks.
- Written by an architect and an attorney with 60 years combined experience.
- Contains useful tips, checklists and anecdotal examples.
- Useful for both young professionals and seasoned veterans.

Market

Architects, construction contractors

Table of Contents

Chapter 1: Construction Documents
Chapter 2: Liability Reduction
Chapter 3: Construction-Related Issues
Chapter 4: Completing Construction
Chapter 5: Closing Out the Contract
Chapter 6: Beyond Contract Close Out

Author Biography

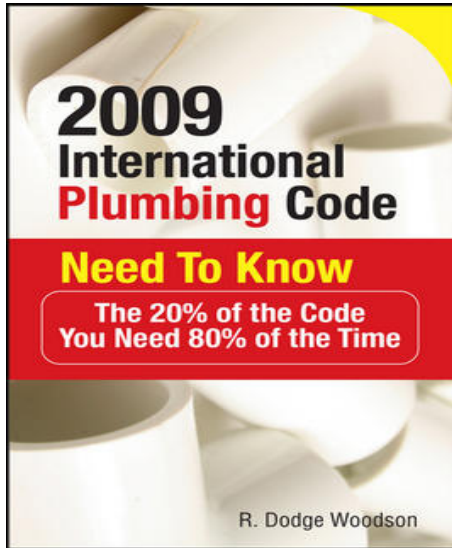
Greg Winkler, AIA, LEED AP is a principal in Green Lizard Management, a project management firm that provides owner representation and project management services to corporate, developer and institutional clients. An architect with over 25 years of experience in affordable housing, office buildings, industrial/commercial and retail construction.

Gary Chiumento is the founder of Chiumento McNally & Shockley LLC, a firm specialising in construction-related law. The firm's clients include architects, engineers, surveyors, construction management companies and various construction professionals. He has published numerous articles on topics of interest to the design and business community and is a frequent speaker on professional liability issues.

2009 International Plumbing Code Need to Know: The 20% of the Code You Need 80% of the Time

R. Dodge Woodson

Imprint: McGraw-Hill Professional



Pub Date: August 2009
ISBN: 9780071544498
Format: Soft cover
Subject Area: General
Pages: 256 - Illustrations: 75
Trim: 15.2 x 22.9cm

Price: AUS\$55.00 / NZ\$60.00

Description

An on-the-job resource for quickly accessing the top 20% of the International Plumbing and Septic Code information that plumbers need 80% of the time.

2009 International Plumbing Code Need to Know is an essential hands-on guide for quickly accessing the most commonly used ICC (International Code Council) plumbing and septic information. Complex code information is difficult to understand and apply and time-consuming to find and an exhaustive reference book is often inconvenient. The key information that every plumber, apprentice, installer and plumbing contractor needs is included in this quick-reference problem-solving guide.

Key Features

- Easy-to-understand explanations and interpretations for the most commonly used ICC Plumbing, Septic Code information.
- Includes the latest 2009 updates to the code.
- Commonly used calculations and formulas.
- Plenty of visual references including maps, charts and handy tables.

Market

Plumbers, Pipelayers, Pipefitters, Gasfitters, Steamfitters, Building Inspectors, General Contractors and Construction Managers.

Table of Contents

Chapter 1: Definitions
Chapter 2: Administration
Chapter 3: General Regulations
Chapter 4: Fixtures, Faucets and Fixture Fittings
Chapter 5: Water Heaters
Chapter 6: Water Supply & Distribution
Chapter 7: Sanitary Drainage Systems
Chapter 8: Indirect and Special Waste
Chapter 9: Vents
Chapter 10: Traps
Chapter 11: Storm Drainage
Chapter 12: Special Piping & Storage Systems
Chapter 13: Recycling Gray Water
Chapter 14: Referenced Standards
Chapter 15: Rainfall Rates
Chapter 16: Degree Days & Design Temperatures
Chapter 17: Using the Code in the Real World

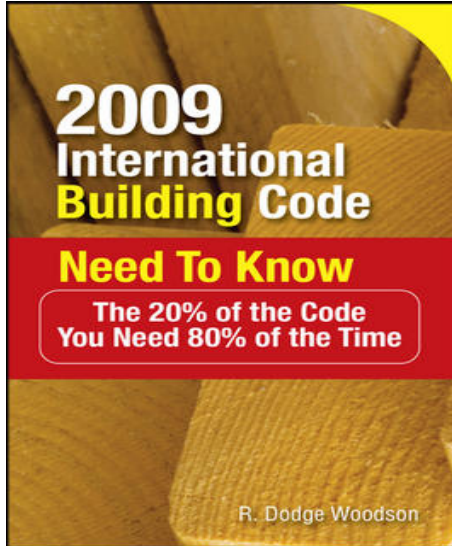
Author Biography

R. Dodge Woodson has over 30 years of experience as a licensed plumber and Master Gasfitter and has authored more than 80 books relating to the construction trades. He has owned and operated construction companies in Virginia and Maine, and served as an adjunct faculty member for the Central Maine Technical College, where he taught code and apprenticeship classes.

2009 International Building Code Need To Know: The 20% of the Code You Need 80% of the Time

R. Dodge Woodson

Imprint: McGraw-Hill Professional



Pub Date: August 2009

ISBN: 9780071592574

Format: Soft cover

Subject Area:

Construction/Contracting

Pages: 256 - Illustrations: 75

Trim: 15.2 x 22.9cm

Price: AUS\$55.00 / NZ\$60.00

Key Features

- Chapters follow the ICC Code.
- Contains commonly used calculations and formulas.
- Easy-to-understand explanations and interpretations for the most commonly used ICC Building Code information.

Market

General Contractors, Contractors' Apprentices, Construction and Building Inspectors and Construction Managers.

Author Biography

R. Dodge Woodson has over 30 years of experience as a licensed plumber and Master Gasfitter and has authored more than 80 books relating to the construction trades. He has owned and operated construction companies in Virginia and Maine and served as an adjunct faculty member for the Central Maine Technical College, where he taught code and apprenticeship classes.

Description

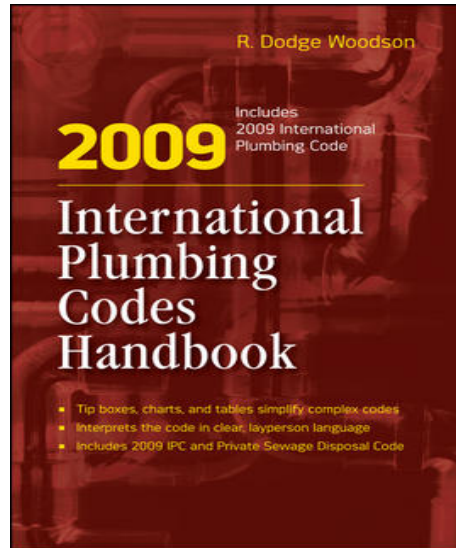
An on-the-job resource for quickly accessing the top 20% of the International Building Code information that contractors need 80% of the time.

The ICC (International Code Council) is one of two main building code development organizations. The ICC Building Code is currently adopted by over 40 states, is updated every three years. It was updated last in 2006 and will be updated next in early (February/March) of 2009. *2009 International Building Code Need to Know* is an essential on-the-job guide for quickly accessing the most commonly used ICC (International Code Council) Building Code information. Complex code information is difficult to understand and apply, and time-consuming to find, and an exhaustive reference book is often inconvenient. The key information that every builder, carpenter, apprentice, installer, and building contractor needs is included in this quick-reference, problem-solving guide.

2009 International Plumbing Codes Handbook

R. Dodge Woodson

Imprint: McGraw-Hill Professional



Pub Date: August 2009
ISBN: 9780071606066
Previous Edition ISBN:
9780071453684
Format: Soft cover
Subject Area: Civil Engineering
Pages: 464 - Illustrations: 200
Trim: 15.2 x 22.9cm

Price: AUS\$105.00 / NZ\$115.00

Description

The fast and easy way to understand the International Code Council's 2009 International Plumbing Code.

Fully updated to reflect the changes in the ICC 2009 International Plumbing Code, this authoritative resource follows the IPC chapter by chapter. Real-world examples and tip boxes transform complex code into easy-to-understand information.

The 2009 edition will be even less text heavy with more data displayed in bulleted lists, tables and graphics. The Private Sewage Disposal Code will be updated to conform to the 2009 standards. This all-in-one manual provides ready-to-use answers to help plumbers get jobs done right, on time and up to the standards of the 2009 codes. It's all the plumbing information they'll need.

Key Features

- New 2009 International Plumbing Code.
- 2009 Private Sewage Disposal Code.

- More heavily illustrated with tip boxes, bullets, charts and tables.
- Explains code information in real-world terms.

Market

Pipe Layers, Plumbers, Pipe Fitters, Steamfitters and International Code Council Builders and Contractors.

Table of Contents

Chapter 1: Definitions
Chapter 2: Administrative Policies and Procedures
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Chapter 9: Vents
Chapter 10: Traps, Clean-Outs and Interceptors
Chapter 11: Storm Drainage
Chapter 12: Special Piping and Storage Systems
Chapter 13: Recycling Gray Water
Chapter 14: Referenced Standards
Chapter 15: Rainfall Rates
Chapter 16: Degree Days and Design Temperatures
Chapter 17: Evaluating Sites and their Requirements
Chapter 18: Materials
Chapter 19: Sizing and Installing Soil Absorption Systems
Chapter 20: Pressure Distribution Systems
Chapter 21: Tanks
Chapter 22: Mound Systems
Chapter 23: Using the code in the Real World

Author Biography

R. Dodge Woodson has over 30 years of experience as a licensed plumber and Master Gasfitter and has authored more than 80 books relating to the construction trades. He has owned and operated construction companies in Virginia and Maine and served as an adjunct faculty member for the Central Maine Technical College, where he taught code and apprenticeship classes.