

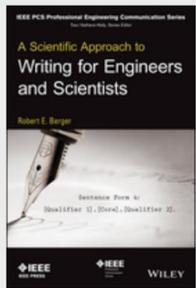
**Physical Sciences, Engineering & Architecture 2014**

**Wiley Stand Hall 8.0 Stand N46**



**WILEY**

Physical Sciences, Engineering and Architecture



ISBN 10: 1118832523

ISBN 13:  
9781118832523

Pages: 232

Ship Date: Jun 23, 2014

**A Scientific Approach to Writing for Engineers and Scientists**

**By:** Robert E. Berger

**Series:** IEEE PCS Professional Engineering Communication Series

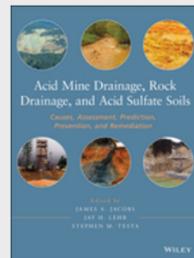
**Category:** Technology & Engineering > Engineering (General)

**ABOUT THE BOOK**

A SCIENTIFIC APPROACH TO WRITING Technical ideas may be solid or even groundbreaking, but if these ideas cannot be clearly communicated, reviewers of technical documents—e.g., proposals for research funding, articles submitted to scientific journals, and business plans to commercialize technology—are likely to reject the argument for advancing these ideas. The problem is that many engineers and scientists, entirely comfortable with the logic and principles of mathematics and science, treat writing as if it possesses none of these attributes. The absence of a systematic framework for writing often results in sentences that are difficult to follow or arguments that leave reviewers ... [Read more »](#)

**ABOUT THE AUTHOR**

ROBERT E. BERGER, PHD, brings a unique set of experiences to the subject of writing. In addition to his training as a scientist, he has edited thousands of research proposals, technical topics in solicitations for such proposals, abstracts of winning proposals, and commercialization plans for converting technology to businesses.



ISBN 10: 0470487860

ISBN 13:  
9780470487860

Pages: 520

Ship Date: Aug 4, 2014

**Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils**

Causes, Assessment, Prediction, Prevention, and Remediation

**By:** James A. Jacobs

**Category:** Technology & Engineering > Environmental > General

**ABOUT THE BOOK**

Provides the tools needed to analyze and solve acid drainage problems. Featuring contributions from leading experts in science and engineering, this book explores the complex biogeochemistry of acid mine drainage, rock drainage, and acid sulfate soils. It describes how to predict, prevent, and remediate the environmental impact of acid drainage and the oxidation of sulfides, offering the latest samp... [Read more »](#)

**ABOUT THE AUTHOR**

JAMES A. JACOBS is Chief Hydrogeologist of Clearwater Group in Point Richmond, California. He is a Fulbright Senior Scholar, having won four awards between 2003 and 2012. He is coauthor of three other environmental books and has served as an expert witness in a variety of resource and environmental contamination cases. He is an instructor for the University of California, Berkeley Extension Progra... [Read more »](#)

**Reviews & Quotes**

"Published by John Wiley & Sons, Inc., Acid Mine Drainage, Rock Drainage and Acid Sulphate Soils is more than a textbook. Illustrated with dozens of photographs, charts, tables and maps, the book is a compendium of 36 scientific papers written by various experts that cover these complex topics." (Resource World Magazine, 1 August 2014)



ISBN 10: 1118773438

ISBN 13:  
9781118773437

Pages: 500

Ship Date: Jul 8, 2014

**Advanced Materials for Agriculture, Food and Environmental Safety**

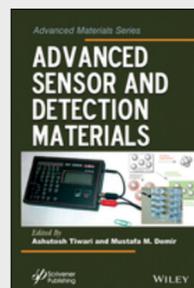
**Series:** Advanced Material Series

**Editor:** Ashutosh Tiwari

**Category:** Technology & Engineering > Material Science

**ABOUT THE BOOK**

The levels of toxic and microbial contamination in the food and environment are influenced by harvesting or slaughtering technologies and by the processes applied during food manufacture. With current cultivation methods, it is impossible to guarantee the absence of pesticides and pathogenic microorganisms in raw foods, both of plant and animal origin. Widespread and increasing incidence of foodborne diseases and the resulting social and economic impact on the world population have brought food and environmental safety to the forefront of ecological safety and public health concerns. The emerging field of advanced materials based on functional architectures offers potential solutions to some of the key performance challenges along with the improved sensitivity, longevity, stability, miniaturization and ruggedness, while reducing complexity and production cost. The overall purpose of this book is to generate new solutions to the technical challenges in easy and rapid detections of food ... [Read more »](#)



ISBN 10: 1118773489

ISBN 13:  
9781118773482

Pages: 536

Ship Date: Jun 30, 2014

**Advanced Sensor and Detection Materials**

**Series:** Advanced Material Series

**Editor:** Ashutosh Tiwari

**Category:** Technology & Engineering > Material Science

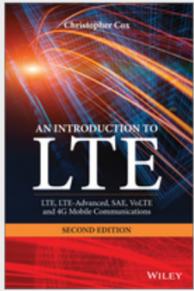
**ABOUT THE BOOK**

The development of sensors at macroscopic or nanometric scales in solid, liquid, or gas phases, contact or noncontact configurations, has driven the research of sensor & detection materials and technology into high gear. The emphasis on detection techniques requires the use of spin crossover organic, inorganic and composite materials and methods that could be unique for sensors fabrication. The influence of length, composition and conformation structure of materials on their properties and the possibilities to adjust sensing properties by doping or adding the side-groups are the starting point of multifarious sensing. The role of inter-molecular interactions, polymer and orde... [Read more »](#)

**ABOUT THE AUTHOR**

Ashutosh Tiwari is an Associate Professor at the Biosensors and Bioelectronics Centre, Linköping University, Sweden; Editor-in-Chief, Advanced Materials Letters and Advanced Materials Reviews; Secretary General, International Association of Advanced Materials; a materials chemist and also a docent in applied physics at Linköping University, Sweden. He has published more than 350 articles, patents, and conference proceedings in the field of materials science and technology and has edited/authored about twenty books on the advanced state-of-the-art of materials science. He is a founding member of the Advanced Materials World Congress and the Indian Materials Congress. Mustafa M. D... [Read more »](#)

Physical Sciences, Engineering and Architecture



**An Introduction to LTE: LTE, LTE-Advanced, SAE, VoLTE and 4G Mobile Communications**

**By:** Christopher Cox  
**Category:** Technology & Engineering > Mobile & Wireless Communications

**ABOUT THE BOOK**

Following on from the successful first edition (March 2012), this book gives a clear explanation of what LTE does and how it works. The content is expressed at a systems level, offering readers the opportunity to grasp the key factors that make LTE the hot topic amongst vendors and operators across the globe. The book assumes no more than a basic knowledge of mobile telecommunication systems, and the reader is not expected to have any previous knowledge of the complex mathematical operations that underpin LTE. This second edition introduces new material for the current state of the industry, such as the new features of LTE in Releases 11 and 12, notably coordinated multipoint transmission and... [Read more »](#)

**ABOUT THE AUTHOR**

Christopher Cox is a professional technical trainer and consultant in mobile telecommunications. He is an expert in the technical and radio network planning aspects of LTE and UMTS, and regularly delivers training courses about them to audiences drawn from equipment manufacturers, network operators and consultancies worldwide. He has a degree in Physics and a PhD in Radio Astronomy from the University of Cambridge and 20 years' experience in scientific and technical consultancy, telecommunications and training.

**ISBN 10:** 1118818032  
**ISBN 13:** 9781118818039  
**Pages:** 488

**Ship Date:** Jul 21, 2014

**2nd Edition**



**Architecture**

Form, Space, and Order  
**By:** Francis D. K. Ching  
**Category:** Architecture > Design, Drafting, Drawing & Presentation

**ABOUT THE BOOK**

The revered architectural reference, updated with contemporary examples and interactive 3D models. An access card with redemption code for the online Interactive Resource Center is included with all new, print copies or can be purchased separately. The Interactive Resource Center includes an expanded library of images that provide ample visual confirmation of the interplay between theory and practice, and readers are encouraged throughout the book to look critically at the built environment to promote a more evocative understanding of architecture. By encouraging critical thought, simplifying timeless design principles, and providing flawless visual reference, Architecture has become... [Read more »](#)

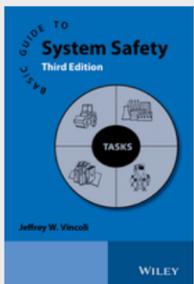
**ABOUT THE AUTHOR**

FRANCIS D.K. CHING is the bestselling author of numerous books on architecture and design, including A Global History of Architecture, Architectural Graphics, A Visual Dictionary of Architecture, Interior Design Illustrated, and Building Construction Illustrated, all published by Wiley. He is a registered architect and Professor Emeritus at the University of Washington in Seattle.

**ISBN 10:** 1118745086  
**ISBN 13:** 9781118745083  
**Pages:** 448

**Ship Date:** Sep 29, 2014

**4th Edition**



**Basic Guide to System Safety**

**By:** Jeffrey W. Vincoli  
**Category:** Technology & Engineering > Industrial Health & Safety

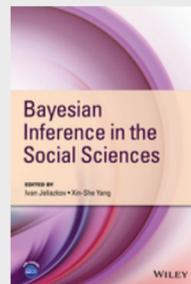
**ABOUT THE BOOK**

This book provides guidance on including prevention through design concepts within an occupational safety and health management system. Through the application of these concepts, decisions pertaining to occupational hazards and risks can be incorporated into the process of design and redesign of work premises, tools, equipment, machinery, substances, and work processes including their construction, manufacture, use, maintenance, and ultimate disposal or reuse. These techniques provide guidance for a life-cycle assessment and design model that balances environmental and occupational safety and health goals over the life span of a facility, process, or product. The new edition is expanded to include primer information on the use of safety assurance techniques in design and construction.

**ISBN 10:** 1118460200  
**ISBN 13:** 9781118460207  
**Pages:** 256

**Ship Date:** Jul 14, 2014

**3rd Edition**



**Bayesian Inference in the Social Sciences**

**Editor:** Ivan Jeliazkov  
**Category:** Mathematics > Probability & Statistics > Bayesian Analysis

**ABOUT THE BOOK**

Presents new models, methods, and techniques and considers important real-world applications in political science, sociology, economics, marketing, and finance. Emphasizing interdisciplinary coverage, Bayesian Inference in the Social Sciences builds upon the recent growth in Bayesian methodology and examines an array of topics in model formulation, estimation, and applications. The book presents recent and trending developments in a diverse, yet closely integrated, set of research topics within the social sciences and facilitates the transmission of new ideas and methodology across disciplines while maintaining manageability, coherence, and a clear focus. Bayesian Inference in the Social Sciences... [Read more »](#)

**ABOUT THE AUTHOR**

Ivan Jeliazkov, PhD, is Associate Professor of Economics and Statistics at the University of California, Irvine. Dr. Jeliazkov's research interests include Bayesian econometrics and discrete data analysis, model comparison, and simulation-based inference. In addition to developing new methods and estimation techniques, his work features applications in a variety of disciplines, including micro- and macroeconomics, marketing, political science, transportation, and environmental engineering. Xin-She Yang, PhD, is Reader in Modeling and Optimization at Middlesex University, United Kingdom, as well as Adjunct Professor at Reykjavik University, Iceland. He is the author of Mathematical Model... [Read more »](#)

**ISBN 10:** 1118771214  
**ISBN 13:** 9781118771211  
**Pages:** 352

**Ship Date:** Aug 18, 2014

Physical Sciences, Engineering and Architecture



**Becoming an Architect**

**By:** Lee W. Waldrep  
**Category:** Architecture > Study & Teaching

**ABOUT THE BOOK**

“Becoming an Architect will inspire future architects, career consultants, and human resources professionals alike, providing all the information you’ll need to make intelligent decisions about careers in architecture.” —From the Foreword by Helene Combs Dreiling, FAIA, 2014 AIA National President Starting a career as an architect is an exciting prospect, but it's important to do your research before you take the plunge. The third edition of Becoming an Architect is an update to the best-selling guide and highlights the risks and rewards on the path to a career as an architect. You'll find new insight and tons of helpful resources, as well as a complete outline of the ... [Read more »](#)

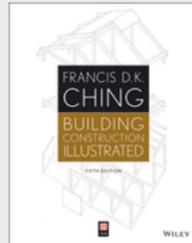
**ABOUT THE AUTHOR**

LEE W. WALDREP, PHD, has over 20 years of experience in higher education with expertise in career development and architecture. Waldrep earned a Ph.D. in counseling and development from The American University, a master of architecture from Arizona State University, and a bachelor of science from the University of Michigan. During his career, he has served in three accredited architecture programs—the University of Illinois at Urbana-Champaign, the University of Maryland and Illinois Institute of Technology. Waldrep previously served as Associate Executive Director of the National Architectural Accrediting Board (NAAB) and as National Vice-President of the American Institute of ... [Read more »](#)

**ISBN 10:** 1118612132  
**ISBN 13:** 9781118612132  
**Pages:** 368

**Ship Date:** Aug 18, 2014

**3rd Edition**



**Building Construction Illustrated**

**By:** Francis D. K. Ching  
**Category:** Architecture > Design, Drafting, Drawing & Presentation

**ABOUT THE BOOK**

The classic visual guide to the basics of building construction, now with a 3D digital building model for interactive learning For over three decades, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new edition of the revered classic remains as relevant as ever, providing the latest information in Francis D.K. Ching's signature style. Its rich and comprehensive approach clearly presents all of the basic concepts underlying building construction. New to this edition are digital enhancements delivered as an online companion to the print edition and also embedded in e-book editions. Features include a 3D model showing how... [Read more »](#)

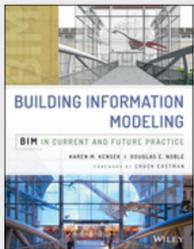
**ABOUT THE AUTHOR**

FRANCIS D.K. CHING is Professor Emeritus of Architecture at the University of Washington in Seattle. He is the bestselling author and coauthor of numerous architecture and design books, including Architectural Graphics; Building Codes Illustrated; Architecture: Form, Space, and Order; A Visual Dictionary of Architecture; A Global History of Architecture; Building Structures Illustrated; and Design Drawing. Mr. Ching’s works have been translated into more than eleven languages and are recognized for their clear explanations and graphic presentations of complex material.

**ISBN 10:** 1118458346  
**ISBN 13:** 9781118458341  
**Pages:** 480

**Ship Date:** Jun 30, 2014

**5th Edition**



**Building Information Modeling**

BIM in Current and Future Practice  
**By:** Karen Kensek  
**Category:** Architecture > General

**ABOUT THE BOOK**

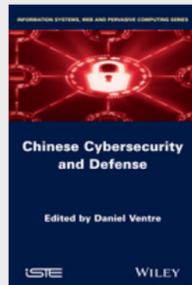
The bright future and exciting possibilities of BIM Many architects and engineers regard BIM as a disruptive force, changing the way building professionals design, build, and ultimately manage a built structure. With its emphasis on continuing advances in BIM research, teaching, and practice, Building Information Modeling: BIM in Current and Future Practice encourages readers to transform disruption to opportunity and challenges them to reconsider their preconceptions about BIM. Thought leaders from universities and professional practice composed essays exploring BIM's potential to improve the products and processes of architectural design including the structure and content of the tools t... [Read more »](#)

**ABOUT THE AUTHOR**

KAREN M. KENSEK and DOUGLAS E. NOBLE teach at the University of Southern California, School of Architecture. Prof. Kensek has received national BIM honors from the AIA TAP committee and Autodesk, hosts an annual conference on Building Information Modeling, and received the 2014 ACSA Award for Creativity with Prof. Noble. They are both past presidents of Association for Computer Aided Design In Architecture (ACADIA) and are active in the American Institute of Architects (AIA).

**ISBN 10:** 111876630X  
**ISBN 13:** 9781118766309  
**Pages:** 432

**Ship Date:** Sep 29, 2014



**Chinese Cybersecurity and Cyberdefense**

**Series:** ISTE  
**Editor:** Daniel Ventre  
**Category:** Technology & Engineering > Telecommunications

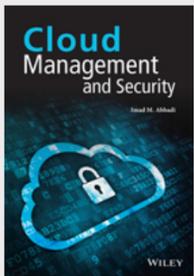
**ABOUT THE BOOK**

Cyberdefense has become, over the past five years, a major issue on the international scene. China, by the place it occupies, is the subject of attention: it is observed, criticized, and designated by many states as a major player in the global cyber-insecurity. The United States is building their cyberdefense strategy against what they call the "Chinese threat." It is therefore important to better understand today's challenges related to cyber dimension in regard of the rise of China. Contributions from international researchers provide cross perspectives on China, its strategies and policies for cybersecurity and cyberdefense. These issues have now gained major strategic dimension: Is Cyberspace changing the scene of international relations? How China does apprehend cybersecurity and cyberdefense? What are the issues, challenges? What is the role of China in the global cyberspace?

**ISBN 10:** 1848216149  
**ISBN 13:** 9781848216143  
**Pages:** 320

**Ship Date:** Oct 6, 2014

## Physical Sciences, Engineering and Architecture



**ISBN 10:** 1118817095  
**ISBN 13:** 9781118817094  
**Price:** USD 105 **Pages:** 240

**Ship Date:** Sep 22, 2014

### Cloud Management and Security

**By:** Imad M. Abbadi

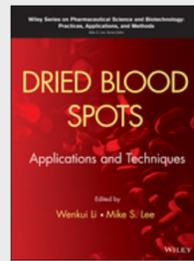
**Category:** Technology & Engineering > Telecommunications

#### ABOUT THE BOOK

Written by an expert with over 15 years' experience in the field, this book establishes the foundations of Cloud computing, building an in-depth and diverse understanding of the technologies behind Cloud computing. In this book, the author begins with an introduction to Cloud computing, presenting fundamental concepts such as analyzing Cloud definitions, Cloud evolution, Cloud services, Cloud deployment types and highlighting the main challenges. Following on from the introduction, the book is divided into three parts: Cloud management, Cloud security, and practical examples. Part one presents the main components constituting the Cloud and federated Cloud infrastructure (e.g., interaction... [Read more »](#))

#### ABOUT THE AUTHOR

Dr. Imad M. Abbadi University of Oxford, UK



**ISBN 10:** 1118054695  
**ISBN 13:** 9781118054697  
**Pages:** 376

**Ship Date:** Jul 8, 2014

### Dried Blood Spots

Applications and Techniques

**Series:** Wiley Series on Pharmaceutical Science and Biotechnology: Practices, Applications and Methods

**Editor:** Wenkui Li

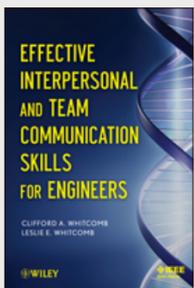
**Category:** Science > Spectroscopy & Spectrum Analysis

#### ABOUT THE BOOK

An informative and comprehensive book on the applications and techniques of dried blood spot sampling. Dried blood spot (DBS) sampling involves the collection of a small volume of blood, via a simple prick or other means, from a study subject onto a cellulose or polymer paper card, which is followed by drying and transfer to the laboratory for analysis. For many years, this method of blood sample collection has been extensively utilized in some important areas of human healthcare (for example, newborn screening for inherited metabolic disorders and HIV-related epidemiological studies). Because of its advantages over conventional blood, plasma, or serum sample collection, DBS sampling has been ... [Read more »](#)

#### ABOUT THE AUTHOR

WENKUI LI currently serves as Senior Fellow in the Department of Drug Metabolism & Pharmacokinetics at Novartis Institutes for BioMedical Research, where he focuses on regulated LC-MS/MS bioanalysis for the toxicokinetic and pharmacokinetic assessment of drug candidates. Dr. Li is a member of the editorial board of Biomedical Chromatography. MIKE S. LEE currently serves as a provider of consulting services specializing in pharmaceutical analysis, accelerated drug discovery and development strategies, and analytical technologies. He has delivered many presentations as invited speaker, plenary speaker, and workshops instructor in the areas of drug discovery and development at universitie... [Read more »](#)



**ISBN 10:** 1118317092  
**ISBN 13:** 9781118317099  
**Pages:** 168

**Ship Date:** May 5, 2014

### Effective Interpersonal and Team Communication Skills for Engineers

**By:** Clifford Whitcomb

**Category:** Technology & Engineering > Engineering (General)

#### ABOUT THE BOOK

Presents key principles of communication that support clear exchanges in a technical context and help engineers learn effective communication skills. Effective communication is a necessity for engineers. Even minor on-the-job misunderstandings can cost time, money, or worse. Yet even though recent studies show that improved communication makes for better engineers, the ability to speak clearly and listen carefully have historically been considered "soft skills" and are not typically or explicitly addressed in engineering programs. Working from basic units called microskills, Effective Interpersonal and Team Communication Skills for Engineers shows readers, one step at a time, how to engage, lis... [Read more »](#)

#### ABOUT THE AUTHOR

CLIFFORD A. WHITCOMB, PhD, CSEP, is Professor and Chair of the Systems Engineering Department at the Naval Postgraduate School, Monterey, California. He has over thirty years' leadership experience in teaching, research, and implementation of system engineering and product development for government and industry. His current research involves the development and assessment of executable architectures for combatant ship, unmanned vehicle, and information technology systems and systems of systems. LESLIE E. WHITCOMB, MSc, is an educator and facilitator with twenty-five years' experience in education and counseling. She has developed curricula for and implemented practice of multicult... [Read more »](#)



**ISBN 10:** 111875252X  
**ISBN 13:** 9781118752524  
**Price:** USD 190 **Pages:** 375

**Ship Date:** Nov 24, 2014

### Electric Vehicle Machines and Drives: Design, Analysis and Application

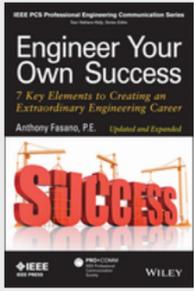
**By:** K. T. Chau

**Category:** Technology & Engineering > Machinery

#### ABOUT THE BOOK

It provides a comprehensive coverage of electric machines and drives for electric and hybrid vehicles, including both electric propulsion and hybrid propulsion. The corresponding motor drives for electric propulsion range from the existing types, namely the DC, induction, permanent magnet brushless and switched reluctance motor drives, to the advanced types, namely the doubly salient permanent magnet, magnetic-gear, vernier permanent magnet and advanced magnetless motor drives. The corresponding machine systems for hybrid propulsion cover the existing types, namely the integrated starter generator and planetary-gear electric variable transmission systems, and the advanced types, namely the double-rotor electric variable transmission and magnetic-gear electric variable transmission systems. Emphasis is given to the design criteria, performance analyses and application examples or potentials of various motor drives and machine systems.

## Physical Sciences, Engineering and Architecture



### Engineer Your Own Success

7 Key Elements to Creating an Extraordinary Engineering Career

**By:** Anthony Fasano

**Series:** IEEE PCS Professional Engineering Communication Series

**Category:** Technology & Engineering > Engineering (General)

#### ABOUT THE BOOK

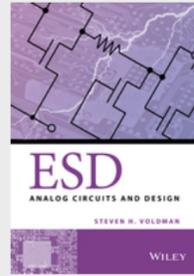
Focusing on basic skills and tips for career enhancement, *Engineer Your Own Success* is a guide to improving efficiency and performance in any engineering field. It imparts valuable organization tips, communication advice, networking tactics, and practical assistance for preparing for the PE exam—every necessary skill for success. Authored by a highly renowned career coach, this book is a battle plan for climbing the rungs of any engineering ladder.

**ISBN 10:** 1118659643

**ISBN 13:**  
9781118659649

**Pages:** 240

**Ship Date:** Nov 24, 2014



### ESD

Analog Circuits and Design

**By:** Steven H. Voldman

**Category:** Technology & Engineering > Electronics > Circuits/General

#### ABOUT THE BOOK

A comprehensive and in-depth review of analog circuit layout, schematic architecture, device, power network and ESD design. This book will provide a balanced overview of analog circuit design layout, analog circuit schematic development, architecture of chips, and ESD design. It will start at an introductory level and will bring the reader right up to the state-of-the-art. Two critical design aspects for analog and power integrated circuits are combined. The first design aspect covers analog circuit design techniques to achieve the desired circuit performance. The second and main aspect presents the additional challenges associated with the design of adequate and effective ESD ... [Read more »](#)

**ISBN 10:** 1119965187

**ISBN 13:**  
9781119965183

**Pages:** 272

**Ship Date:** Sep 29, 2014

#### ABOUT THE AUTHOR

Steven H. Voldman, IEEE Fellow, Vermont, USA



### Forty Ways to Think About Architecture

Architectural History and Theory Today

**By:** Iain Borden

**Category:** Architecture > Criticism

#### ABOUT THE BOOK

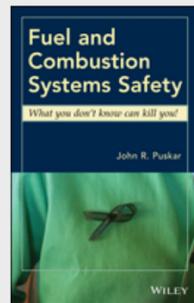
This collection takes in a total of 40 essays covering key subjects, ranging from memory and heritage to everyday life, building materials and city spaces. As well as critical theory, philosophy, literature and experimental design, it refers to more immediate and topical issues in the built environment, such as globalization, localism, regeneration and ecologies. Concise and engaging entries reflect on architecture from a range of perspectives. Contributors include eminent historians and theorists from elsewhere – such as Jean-Louis Cohen, Briony Fer, Hilde Heynen, Mary MacLeod, Griselda Pollock Penny Sparke and Anthony Vidler – as well as Forty's colleagues from the Bartlett School of Architecture including Iain Borden, Murray Fraser, Peter Hall, Barbara Penner, Jane Rendell and Andrew Saint. *Forty Ways to Think about Architecture* also features contributions from distinguished architects, such as Tony Fretton, Jeremy Till and Sarah Wigglesworth, and well-known critics... [Read more »](#)

**ISBN 10:** 1118822609

**ISBN 13:**  
9781118822609

**Pages:** 280

**Ship Date:** Jul 8, 2014



### Fuel and Combustion Systems Safety

What you don't know can kill you!

**By:** John R. Puskar

**Category:** Technology & Engineering > Industrial Health & Safety

#### ABOUT THE BOOK

Practical, easy-to-follow advice that saves lives. Based on the author's thirty years of hands-on experience working in the field of industrial fuel systems and combustion equipment safety, this book integrates safety codes with practical, tested, and proven guidance that makes it viable to specify, operate, and maintain industrial fuel and combustion systems as safely as possible. Readers will learn about fuels, piping, combustion, controls, and risks from more than fifty "real-life stories" the author has integrated into each chapter so one can immediately see and understand the concepts presented. The incidents depicted resulted in forty-six deaths, hundreds of serious injuries, and billions... [Read more »](#)

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**ISBN 13:**  
9780470533604

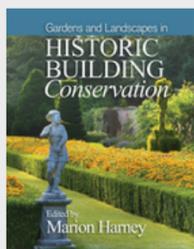
**Pages:** 346

**Ship Date:** Jun 23, 2014

#### ABOUT THE AUTHOR

JOHN R. PUSKAR is a licensed engineer and has over thirty years of experience working in the field of industrial fuels and combustion equipment safety. During that time, his company inspected and tested thousands of fuel trains at more than 500 plant sites in dozens of countries. His clients have included U.S. Steel, Ford Motor Co., General Motors, ConAgra, Tyson Foods, Pfizer, and Alcoa. Mr. Puskar has served on a number of key NFPA and ASME committees related to industrial fuels and combustion equipment safety. He has also been an expert retained for some of the worst industrial fuel and combustion systems disasters in history.

## Physical Sciences, Engineering and Architecture



### Gardens and Landscapes in Historic Building Conservation

**By:** Marion Harney  
**Series:** Historic Building Conservation  
**Category:** Architecture > History > General

#### ABOUT THE BOOK

This comprehensive guide on historic garden and landscape conservation will help landscape professionals familiarise themselves with what the conservation of historic gardens, garden structures and designed landscapes encompasses. The aim of the series is to introduce each aspect of conservation and to provide concise, basic and up-to-date knowledge within five volumes, sufficient for the professional to appreciate the subject better and to know where to seek further help. Gardens & Landscapes in Historic Building Conservation is an essential guide for everyone with an interest in the conservation of historic gardens and designed landscapes worldwide. The latest assessment of t... [Read more »](#)

#### ABOUT THE AUTHOR

Marion Harney Director of Studies, MSc in the Conservation of Historic Gardens and Cultural Landscapes, University of Bath Devised and directs this postgraduate degree programme, which is taught by leading professionals, expert practitioners and academics and is open to graduates from most disciplines and other professionals with relevant experience wishing to gain a vocational degree.

**ISBN 10:** 1118508149  
**ISBN 13:**  
9781118508145  
**Pages:** 480

**Ship Date:** Jun 23, 2014



### Gas Treating

Absorption Theory and Practice  
**By:** Dag Eimer  
**Category:** Science > Energy

#### ABOUT THE BOOK

Gas Treating: Absorption Theory and Practice provides an introduction to the treatment of natural gas, synthesis gas and flue gas, addressing why it is necessary and the challenges involved. The book concentrates in particular on the absorption-desorption process and mass transfer coupled with chemical reaction. Following a general introduction to gas treatment, the chemistry of CO<sub>2</sub>, H<sub>2</sub>S and amine systems is described, and selected topics from physical chemistry with relevance to gas treating are presented. Thereafter the absorption process is discussed in detail, column hardware is explained and the traditional mass transfer model mechanisms are presented together with mass transfer co... [Read more »](#)

#### ABOUT THE AUTHOR

Dag A. Eimer Tel-Tek and Telemark University College, Norway

**ISBN 10:** 111887773X  
**ISBN 13:**  
9781118877739  
**Pages:** 462

**Ship Date:** Sep 9, 2014



### Green Building Illustrated

**By:** Francis D. K. Ching  
**Category:** Architecture > Sustainability & Green Design

#### ABOUT THE BOOK

"Green Building Illustrated is a must-read for students and professionals in the building industry. The combination of incredibly expressive illustrations and accessible technical writing make concepts of green building on paper as intuitive as they would be if you toured a space with experts in sustainable building." —Rick Fedrizzi, President, CEO, and Founding Chair of the U.S. Green Building Council "The authors of Green Building Illustrated deliver clear and intelligent text, augmented by straightforward but compelling illustrations describing green building basics. This comprehensive book covers everything from the definition of green buildin... [Read more »](#)

#### ABOUT THE AUTHOR

FRANCIS D.K. CHING, an architect and Professor Emeritus at the University of Washington, recently retired after more than 35 years of teaching. He is the bestselling author of Building Construction Illustrated, among other books on architecture and design, all published by Wiley. His works have been translated into more than 16 languages and are regarded as classics for their renowned graphic presentations. IAN M. SHAPIRO is the founder and co-owner of Taitem Engineering in Ithaca, New York, an award-winning consulting firm he founded in 1989. He has been a visiting lecturer at Cornell University, Tompkins-Cortland Community College, and Syracuse University. He has worked on several LEED buil... [Read more »](#)

**ISBN 10:** 1118562372  
**ISBN 13:**  
9781118562376  
**Pages:** 288

**Ship Date:** Jun 23, 2014



### Grid Connected Photovoltaic Power Systems

**By:** Remus Teodorescu  
**Series:** Wiley - IEEE  
**Category:** Technology & Engineering > Power Resources > General

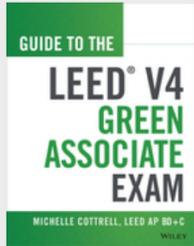
#### ABOUT THE BOOK

Provides a comprehensive description of the control of grid converters for photovoltaic and wind power systems, enabling effective and reliable grid integration of the power produced. This book provides a detailed coverage of power converters for renewable energy systems, so that power produced from these systems can be efficiently integrated into the national grid. It starts with an overview of the electrical characteristics of renewable energy sources, explaining why it is necessary to interface such sources to the grid through power converters. The authors also cover some general concepts in control theory, explaining different types of controller. Following this, the text goes on to analyse firstly the control of grid converters for photovoltaic, and then wind power systems, looking at system fundamentals, and more specific system control such as maximum point power tracking (MPPT), grid synchronization and monitoring methods, and grid requirement issues. Next, is a more general dis... [Read more »](#)

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9781118631300  
**Price:** USD 125 **Pages:**  
350

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## Physical Sciences, Engineering and Architecture



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**ISBN 13:** 9781118870310  
**Pages:** 208

**Ship Date:** Oct 6, 2014

**2nd Edition**

### Guide to the LEED Green Associate V4 Exam

**By:** Michelle Cottrell  
**Series:** Wiley Series in Sustainable Design  
**Category:** Architecture > Design, Drafting, Drawing & Presentation

#### ABOUT THE BOOK

Prepare for the LEED Green Associate v4 exam with an expert who has been there – and passed! Guide to the LEED Green Associate V4 Exam is a comprehensive study guide for the LEED Green Associate v4 exam. Written by a LEED expert and consultant who actually passed the exam, this guide provides a first-hand account of preparation strategies that work. The book is designed to work with how people study, organized for quick navigation, with sample questions and flashcards throughout. The companion website offers additional study aids, including more sample test questions and flashcards, plus video tutorials that introduce concepts and strategies within each chapter. The book covers all topics and principles included on the exam, and provides all the information necessary to pass. Passing the LEED Green Associate v4 exam is the only way to get the Green Associate credential, so a complete, comprehensive study guide is essential. The Guide to the LEED Green Associate Exam has been update... [Read more »](#)



**ISBN 10:** 1118328035  
**ISBN 13:** 9781118328033  
**Pages:** 784

**Ship Date:** May 5, 2014

### Handbook of Digital Games

**Editor:** Marios C. Angelides  
**Category:** Technology & Engineering > Signals & Signal Processing

#### ABOUT THE BOOK

A thorough discussion of the present and future of digital gaming. People play digital games for many reasons, from entertainment to professional training, but all games share the same basic characteristics. From those basic parameters, gaming professionals manage to create the enormous variety of games on the market today. The Handbook of Digital Games explores the many considerations and variables involved in game creation, including gaming techniques and tools, game play, and game design and development. A team of recognized gaming experts from around the world shares their thoughts on the different aspects of game creation, providing readers with a deep understanding and insider perspective... [Read more »](#)

#### ABOUT THE AUTHOR

MARIOS C. ANGELIDES, PhD, is a Professor of Computing in the School of Engineering and Design at Brunel University, UK, a Chartered Fellow of the British Computer Society, and a Chartered Engineer. He holds a BSc and a PhD, both from the London School of Economics (LSE). HARRY AGIUS, PhD, is a Senior Lecturer in Computing in the School of Engineering and Design at Brunel University, UK, and a Fellow of the British Computer Society. He holds a BSc in Computing and Information Systems, an MSc in Analysis, Design and Management of Information Systems, and a PhD in Multimedia Systems, all from the London School of Economics (LSE).



**ISBN 10:** 0470510595  
**ISBN 13:** 9780470510599  
**Pages:** 1824

**Ship Date:** Jan 20, 2015

### Handbook of Digital Imaging

**Editor:** Michael Kriss  
**Category:** Technology & Engineering > Imaging Systems

#### ABOUT THE BOOK

A comprehensive and practical analysis and overview of the 'imaging chain' through acquisition, processing and display. The Handbook of Digital Imaging provides a coherent overview of the imaging science 'amalgam', focusing on the capture, storage and display of images. The volumes are arranged thematically to provide a seamless analysis of the imaging 'chain' from source (image acquisition) to destination (image print/display). The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems. The content will be drawn from all aspects of digital imaging including optic... [Read more »](#)

#### ABOUT THE AUTHOR

Editor-in-Chief Dr. Kriss received his BA(1962), MS(1964) and PhD(1969) in Physics from the University of California at Los Angeles. He joined the Eastman Kodak Research Laboratories, Color Photography Division, in 1969 and later the Physics Division until his retirement in 1993. In his early years at Kodak, Dr. Kriss focused on color film image structure and modeled and simulated the impact of chemical development on image structure and color reproduction. When he joined the Physics Division he focused on image processing of scanned and captured digital images. Dr Kriss spent three years in Japan where helped build an advanced research facility. At Kodak he headed up the Imaging Processing L... [Read more »](#)



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**4th Edition**

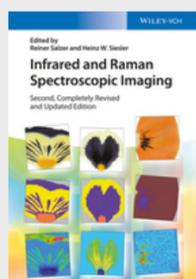
### Heating, Cooling, Lighting

Sustainable Design Methods for Architects  
**By:** Norbert Lechner  
**Category:** Architecture > Design, Drafting, Drawing & Presentation

#### ABOUT THE BOOK

Sustainable environmental control through building design. Heating, Cooling, and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design. By detailing the many factors that contribute to the comfort in a building, this book helps architects minimize mechanical systems and energy usage over the life of the building by siting, building design, and landscaping to maximize natural heating, cooling, and lighting. This new fourth edition includes new information on integrated design strategies and designing for the Tropics. Resources include helpful case studies, checklists, diagrams, and a companion website featuring additional cases, an image bank, and instructor materials. Designing buildings that require less energy to heat, cool, and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems. Basic design decisions regarding size, orientation, and form have a great impact ... [Read more »](#)

## Physical Sciences, Engineering and Architecture



**ISBN 10:** 3527336524  
**ISBN 13:**  
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**Pages:** 656

**Ship Date:** Jun 23, 2014

### Infrared and Raman Spectroscopic Imaging

**Editor:** Reiner Salzer

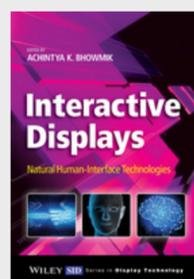
**Category:** Science > Chemistry > Analytic

#### ABOUT THE BOOK

This second edition of the successful ready reference is updated and revised with approximately 30% new content to reflect the numerous instrumental developments and improvements, as well as the significant expansion of this rapidly developing field. For example, the combination of IR imaging with AFM has enhanced the achievable lateral resolution by an order of magnitude down to a few hundred nanometers, thus launching a multiplicity of new applications in material science. Furthermore, Raman and IR spectroscopic imaging have become key technologies for the life sciences and today contribute tremendously to a better and more detailed understanding of numerous biological and medical research... [Read more »](#)

#### ABOUT THE AUTHOR

Reiner Salzer is Professor Emeritus of Analytical Chemistry at the Technical University of Dresden (Germany). He has authored more than 250 journal publications and serves on various national and international scientific boards. Professor Salzer is a member of the Norwegian Academy of Science and a recipient of the Emich Plaque of the Austrian Society of Analytical Chemistry. Recently he also received the Clemens Winkler Medal of the GDCh (German Chemical Society) and the Hanus Medal of the Czech Chemical Society. Professor Salzer served as President of the Division Analytical Chemistry of the GDCh and is National Delegate to the Division Analytical Chemistry of EuCheMS, where he is Head of ... [Read more »](#)



**ISBN 10:** 1118631374  
**ISBN 13:**  
9781118631379  
**Price:** USD 135 **Pages:**  
408

**Ship Date:** Oct 6, 2014

### Interactive Displays

Natural Human-Interface Technologies

**By:** Achintya K. Bhowmik

**Series:** Wiley Series in Display Technology

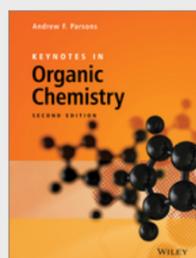
**Category:** Technology & Engineering > Electronics > General

#### ABOUT THE BOOK

How we interface and interact with computing, communications and entertainment devices is going through revolutionary changes, with natural user inputs based on touch, voice, and vision replacing or augmenting the use of traditional interfaces based on the keyboard, mouse, joysticks, etc. As a result, displays are morphing from one-way interface devices that merely show visual content to two-way interaction devices that provide more engaging and immersive experiences. This book provides an in-depth coverage of the technologies, applications, and trends in the rapidly emerging field of interactive displays enabled by natural human-interfaces. Key features: Provides a definitive reference readin... [Read more »](#)

#### ABOUT THE AUTHOR

Achintya K. Bhowmik, Intel Corporation, USADr. Achin Bhowmik is the director of perceptual computing technology and solutions at Intel Corporation, where his group is focused on developing next-generation computing solutions based on natural human-computer interaction and visual computing technologies and applications. He is a senior member of the IEEE as well as program committee member of SID and IMID. He is associate editor of the Journal of the Society for Information Display, and was guest editor for two special volumes on "Advances in OLED Displays" and "Interactive Displays". Dr. Bhowmik is an Adjunct Professor at Kyung-Hee University, Seoul, Korea teaching courses on digital imaging ... [Read more »](#)



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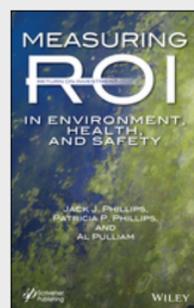
### Keynotes in Organic Chemistry

**By:** Andrew F. Parsons

**Category:** Science > Chemistry > Organic

#### ABOUT THE BOOK

This concise and accessible book provides organic chemistry notes for students studying chemistry and related courses at undergraduate level, covering core organic chemistry in a format ideal for learning and rapid revision. The material is organised so that fundamental concepts are introduced early, then built on to provide an overview of the essentials of functional group chemistry and reactivity, leading the student to a solid understanding of the basics of organic chemistry. Graphical presentation of information is central to the book, to facilitate the rapid assimilation, understanding and recall of critical concepts, facts and definitions. Students wanting a comprehensive and accessible overview of organic chemistry to build the necessary foundations for a more detailed study will find this book an ideal source of the information they require. In addition, the structured presentation, highly graphical nature of the text and practice problems with outline answers will provide an in... [Read more »](#)



**ISBN 10:** 1118639782  
**ISBN 13:**  
9781118639788  
**Pages:** 488

**Ship Date:** Aug 4, 2014

### Measuring ROI in Environment, Health, and Safety

**By:** Jack J. Phillips

**Category:** Science > Chemistry > Organic

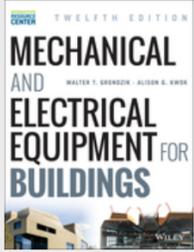
#### ABOUT THE BOOK

Within an organization, the responsibilities for environment, health, and safety are often under the direction of the same executive team in an organization. This new book shows how to measure the success of all types of programs and projects involving environment initiatives, health related programs for employees and citizens, and various safety programs in all types of settings. It also explains how to report results by using a step-by-step approach.

#### ABOUT THE AUTHOR

Dr. Jack J. Phillips, PhD, is Chairman of the ROI Institute and a world-renowned expert on measurement and evaluation. Phillips provides consulting services for Fortune 500 companies and workshops for major conference providers worldwide. Phillips is also the author or editor of more than 30 books and more than 100 articles. His work has been featured in the Wall Street Journal, Bloomberg Businessweek, Fortune, and on CNN. Dr. Patricia Pulliam Phillips, PhD, is an internationally recognized author, consultant, and President and CEO of the ROI Institute. Phillips provides consulting services to organizations worldwide. She helps organizations build capacity when using the ROI Methodology by fa... [Read more »](#)

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### Mechanical and Electrical Equipment for Buildings

**By:** Walter T. Grondzik  
**Category:** Architecture > Design, Drafting, Drawing & Presentation

#### ABOUT THE BOOK

The definitive guide to environmental control systems, updated with emerging technology and trends. The Interactive Resource Center is an online learning environment where instructors and students can access the tools they need to make efficient use of their time, while reinforcing and assessing their understanding of key concepts for successful understanding of the course. An access card with redemption code for the online Interactive Resource Center is included with all new, print copies or can be purchased separately. The online Interactive Resource Center, contains animations, interactive exercises, and other learning resources tied to the book. Mechanical and Electrical Equipment for Buildi... [Read more »](#)

#### ABOUT THE AUTHOR

WALTER T. GRONDZIK, PE, LEED AP BD+C, is an architectural engineer and Professor of Architecture at Ball State University, Muncie, Indiana. Grondzik is a Fellow of ASHRAE, a Fellow of the American Solar Energy Society, and a past president of the Society of Building Science Educators and of the Architectural Research Centers Consortium. His research includes building commissioning, sustainability and high-performance building initiatives, and all areas of environmental control systems and their effects on buildings and occupants. ALISON G. KWOK, PHD, AIA, LEED AP BD+C, is an architect and Professor of Architecture at the University of Oregon, Eugene, teaching design studios, seminars ... [Read more »](#)



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**4th Edition**

### Medical and Dental Space Planning

A Comprehensive Guide to Design, Equipment, and Clinical Procedures

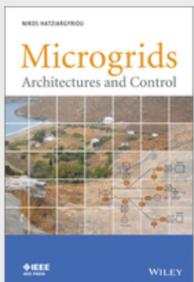
**By:** Jain Malkin  
**Category:** Architecture > Interior Design > General

#### ABOUT THE BOOK

Medical and Dental Space Planning is an indispensable guide to the myriad of details that make a medical or dental practice efficient and productive. The unique needs of more than thirty specialties, as well as primary care, are explained in the context of new technology and the many regulatory and compliance issues influencing design. Concepts are also presented for ambulatory surgical centers, diagnostic imaging, clinical laboratories, breast care clinics, endoscopy centers, community health centers, radiation oncology, and single-specialty and multispecialty group practices and clinics. A thorough review of the latest dental technology and many creative space plans and design ideas for ea... [Read more »](#)

#### ABOUT THE AUTHOR

Jain Malkin, CID, AAHID, EDAC, is founder of the firm Jain Malkin Inc., a leader in the field of evidence-based design for healthcare facilities. The author of several books on healthcare design, including A Visual Reference for Evidence-based Design, she consults from her studio in La Jolla, California. Malkin serves on the board of The Center for Health Design and lectures widely on excellence in healthcare facility design.



**ISBN 10:** 1118720687  
**ISBN 13:** 9781118720684  
**Pages:** 340

**Ship Date:** Aug 4, 2014

### Microgrids

Architectures and Control  
**Series:** Wiley - IEEE  
**Editor:** Nikos Hatzigiorgiou  
**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

Microgrids are the most innovative area in the electric power industry today. Future microgrids could exist as energy-balanced cells within existing power distribution grids or stand-alone power networks within small communities. A definitive presentation on all aspects of microgrids, this text examines the operation of microgrids – their control concepts and advanced architectures including ... [Read more »](#)

#### ABOUT THE AUTHOR

Nikos D. Hatzigiorgiou is professor at the Power Division of the Electrical and Computer Engineering Department of the National Technical University of Athens. From February 2007 to September 2012, he was Deputy CEO of the Public Power Corporation (PPC) of Greece, responsible for Transmission and Distribution Networks, island DNO and the Center of Testing, Research and Prototyping. He is Fellow Me... [Read more »](#)

#### Reviews & Quotes

“This book is a must read resource for anyone interested in the design and operation of microgrids and the integration of renewable resources into the power grid” —Sakis Meliopoulos, Distinguished Professor at Georgia Tech School of Electrical and Computer Engineering, USA “This book not only explains in a very good way what a microgrid is, it also explains how microgr... [Read more »](#)



**ISBN 10:** 111997397X  
**ISBN 13:** 9781119973973  
**Price:** USD 130 **Pages:** 416

**Ship Date:** Feb 23, 2015

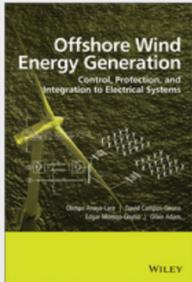
### Microgrids

Control and Operation  
**By:** Josep Guerrero  
**Series:** Wiley - IEEE  
**Category:** Technology & Engineering > Electronics > General

#### ABOUT THE BOOK

Timely and comprehensive overview of microgrid technology and components with focus on control architectures and solutions to operate and manage the microgrid. This book covers the description of the technologies that integrate microgrids, including prime movers, energy storage elements, and power electronics. Issues related to the control of the individual elements, as well as the management of the overall system, are described, as well as the control parameters design and the system stability analysis. Finally it describes some real application and worldwide projects, which can be of interest among engineers. The book is divided into three sections – ‘Basics’, ‘Technologies’ and ‘Hierarchical Control’. Surveys a wealth of recent research from Europe, USA and Japan currently diffused across the journal literature. Describes power electronic interfaces and their control techniques for the different microgeneration devices under consideration and the... [Read more »](#)

## Physical Sciences, Engineering and Architecture



**ISBN 10:** 1118539621  
**ISBN 13:**  
9781118539620  
**Pages:** 306

**Ship Date:** Jun 23, 2014

### Offshore Wind Energy Generation

Control, Protection, and Integration to Electrical Systems

**By:** Olimpo Anaya-Lara

**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

The offshore wind sector's trend towards larger turbines, bigger wind farm projects and greater distance to shore has a critical impact on grid connection requirements for offshore wind power plants. This important reference sets out the fundamentals and latest innovations in electrical systems and control strategies deployed in offshore electricity grids for wind power integration. Includes: All current and emerging technologies for offshore wind integration and trends in energy storage systems, fault limiters, superconducting cables and gas-insulated transformers. Protection of offshore wind farms illustrating numerous system integration and protection challenges through case studies. Mode... [Read more »](#)

#### ABOUT THE AUTHOR

Edgar Lenymirko Moreno-Goytia, Reader, Instituto Tecnológico de Morelia, México. Dr. Moreno-Goytia has researched power electronic-based equipment and measurement systems development. He designed and built a Thyristor Controlled Series Compensator and its control to operate in a voltage fluctuations environment, and has been involved in evaluating the impact of wind generation on the electrical grid. Dr. Moreno-Goytia has published over thirty papers in international conferences and journals and is a member of IEEE and IET. Olimpo Anaya-Lara, Senior Lecturer, Institute for Energy and Environment, University of Strathclyde, Glasgow, UK. Dr. Anaya-Lara has researched power electronic eq... [Read more »](#)



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**ISBN 13:**  
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**Pages:** 392

**Ship Date:** Aug 4, 2014

### Oil Spill Remediation

Colloid Chemistry-Based Principles and Solutions

**By:** Ponisseril Somasundaran

**Category:** Science > Chemistry > Physical & Theoretical

#### ABOUT THE BOOK

This book provides a comprehensive overview of oil spill remediation from the perspectives of policy makers, scientists, and engineers, generally focusing on colloid chemistry phenomena and solutions involved in oil spills and their cleanup. • First book to address oil spill remediation from the perspective of physicochemical and colloidal science • Discusses current and emerging detergents used in clean-ups • Includes chapters from leading scientists, researchers, engineers, and policy makers • Presents new insights into the possible impact of oil spills on ecosystems as well as preventive measures

#### ABOUT THE AUTHOR

Ponisseril Somasundaran, PhD, is Chairman of the Henry Krumb School at Columbia University and is currently on the board of the new United Engineering Foundation. He has authored/edited fifteen books and over 700 scientific publications and patents. Partha Patra, PhD, is Research Scientist at Columbia University in New York. His research efforts focus on dealing with challenges associated with earth resource recovery and management, and development of engineering tools to promote usage of bioagents in personal care, pharmaceuticals and food industries. Raymond S. Farinato, PhD, is currently a Senior Research Fellow in the In Process Separation department of Cytec Industries Inc. and an adjunct... [Read more »](#)



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**ISBN 13:**  
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**Pages:** 408

**Ship Date:** Aug 4, 2014

**2nd Edition**

### Program Management for Improved Business Results

**By:** Russ Martinelli

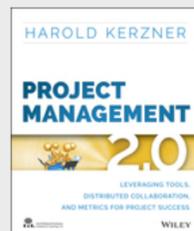
**Category:** Technology & Engineering > Industrial Engineering

#### ABOUT THE BOOK

Superior program management begins with superior information and strategy. Program Management for Improved Business Results, Second Edition is a practical guide to real-world program management, written to align with the rigorous PMI PgMP certification standards. The book explains the benchmarks and best practices that help shape a superior program manager, and provides case studies that illustrate the real-world application of management concepts. Written by a team composed of both industry professionals and academics, the book strikes a balance between theory and practice that facilitates understanding and better prepares candidates for the PgMP. Managers at all levels will learn the insight... [Read more »](#)

#### ABOUT THE AUTHOR

RUSS J. MARTINELLI has served as a senior program manager at Intel and Lockheed Martin. He is co-founder of the Program Management Academy. He has used his expertise to help organizations in a variety of industries including medical, software, energy, transportation, high-tech, and aerospace. JAMES M. WADDELL is a former director of program management in the high-tech industry and co-founder of the Program Management Academy. He consults in the areas of program management and mergers and acquisitions. TIM J. RAHSCHULTE is an associate professor in George Fox University's College of Business and is executive director at the Program Management Academy. He has over 20 years of professional... [Read more »](#)



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**ISBN 13:**  
9781118991251  
**Price:** USD 75 **Pages:**  
336

**Ship Date:** Feb 2, 2015

**2nd Edition**

### Project Management 2.0

**By:** Harold R. Kerzner

**Category:** Technology & Engineering > Industrial Engineering

#### ABOUT THE BOOK

Get connected and improve outcomes with a more modern approach to project management. Project Management 2.0 tackles the new emerging approach and toolset for practicing project management in a virtual world. Author Harold Kerzner is recognized as the thought leader in project management, and in this book, he shows how PM 2.0 offers better outcomes with a focus on new tools, better governance, improved collaboration, and more meaningful reporting using KPIs, metrics, and dashboards. This full color guide explores the impact PM 2.0 changes are having on organizations around the world, and provides a detailed comparison with PM 1.0 to help practitioners adopt new techniques and tools to use within their existing project management approach. At its core, PM 2.0 recognizes that a new generation of workers grew up in a Web 2.0 world of web-based project management tools that allow virtual or distributed teams to work together much more closely than in the past. Advances in technology and infor... [Read more »](#)

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**ISBN 13:**  
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**Pages:** 272

**Ship Date:** Jun 16, 2014

**6th Edition**

### Quick Selection Guide to Chemical Protective Clothing

**By:** Krister Forsberg  
**Category:** Technology & Engineering > Industrial Health & Safety

#### ABOUT THE BOOK

Quick Selection Guide to Chemical Protective Clothing provides the reader with the latest information on Selection, Care and Use of Chemical Protective garments and gloves. Topics in the widely-used reference guide include Selection and Use of Chemical Protective Clothing, Chemical Index, Selection Recommendations, Glossary, Standards for Chemical Protective Clothing, Manufactures of Chemical Protective Clothing and European requirements for chemical resistant gloves. The key feature of the book is the color-coded selection recommendations. The red, yellow or green indications are highly appreciated by the users. This sixth edition of the Quick Selection Guide to Chemical Prot... [Read more »](#)

#### ABOUT THE AUTHOR

KRISTER FORSBERG is an internationally recognized expert on protective clothing. He has been an active member of ASTM Committee F23 on Personal Protective Clothing and Equipment and convenor of EN 374—Chemical and micro-organism within CEN/TC162. ANN VAN DEN BORRE is currently active as Sr. Technical Manager at Ansell Healthcare, advising customers to find the best solution. She has been working in this Personal Protective Equipment sector for 15 years. With a Master of Engineering Sciences in Chemistry, Ann has specialized in chemical protective clothing materials and the mechanism of permeation breakthrough. NORMAN HENRY III is a retired DuPont Senior Research Chemist and Certifie... [Read more »](#)



**ISBN 10:** 111879706X  
**ISBN 13:**  
9781118797068  
**Pages:** 288

**Ship Date:** Aug 25, 2014

### Radio over Fiber for Wireless Communications: From Fundamentals to Advanced Topics

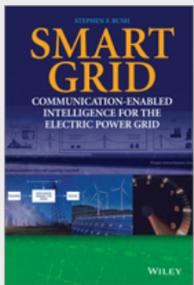
**By:** Xavier N Fernando  
**Series:** Wiley - IEEE  
**Category:** Technology & Engineering > Mobile & Wireless Communications

#### ABOUT THE BOOK

A comprehensive evaluation of Fi-Wi, enabling readers to design links using channel estimation and equalization algorithms This book provides a detailed study of radio over fiber (ROF) based wireless communication systems, otherwise called fiber wireless (Fi-Wi) systems. This is an emerging hot topic where the abundant bandwidth of optical fiber is directly combined with the flexibility and mobility of wireless networks to provide broadband connectivity. Its application is increasing because of the growing demand for broadband wireless services. In such a system the transmission of the radio signals over a fiber is an important task. This book provides substantial material o... [Read more »](#)

#### ABOUT THE AUTHOR

Xavier Fernando, Professor and Director, Ryerson Communications Laboratory, Department of Electrical and Computer Engineering, Ryerson University, Toronto, Canada. Xavier Fernando has been working Fi-Wi systems for over 15 years. He did his PhD in this area at the University of Calgary in affiliation with TRILabs. His PhD work has been patented and won the Canadian best paper award in 2001. He joined Ryerson University in 2001 where now he is a full professor. Professor Fernando is an IEEE Communications Society Distinguished Lecturer and the Chair of the IEEE Toronto Section, Canada. He has been working in multiple aspects of wireless communications, having a special interes... [Read more »](#)



**ISBN 10:** 1119975808  
**ISBN 13:**  
9781119975809  
**Pages:** 570

**Ship Date:** Oct 6, 2014

### Smart Grid

Communication-Enabled Intelligence for the Electric Power Grid  
**By:** Stephen F. Bush  
**Series:** Wiley - IEEE  
**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

This book bridges the divide between the fields of power systems engineering and computer communication through the new field of power system information theory. Written by an expert with vast experience in the field, this book explores the smart grid from generation to consumption, both as it is planned today and how it will evolve tomorrow. The book focuses upon what differentiates the smart grid from the "traditional" power grid as it has been known for the last century. Furthermore, the author provides the reader with a fundamental understanding of both power systems and communication networking. It shows the complexity and operational requirements of the evolving power grid, the so-calle... [Read more »](#)

#### ABOUT THE AUTHOR

Dr Stephen F. Bush, General Electric Global Research, USA Stephen received the B.S. degree in electrical and computer engineering from Carnegie Mellon University, Pittsburgh, PA, the M.S. degree in computer science from Cleveland State University, Cleveland, OH, and the Ph.D. degree from the University of Kansas, Lawrence. He is currently a Researcher at General Electric Global Research, Niskayuna, NY. Before joining GE Global Research, he was a Researcher at the Information and Telecommunications Technologies Center (ITTC), University of Kansas. He has been the Principal Investigator for many DARPA and Lockheed Martin sponsored research projects including: Active Networking (DARPA/ITO)... [Read more »](#)



**ISBN 10:** 1118128486  
**ISBN 13:**  
9781118128480  
**Pages:** 300

**Ship Date:** Dec 16, 2013

### Smart Grid

An Introduction  
**By:** Claudio Lima  
**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

This book introduces the new and emerging smart grid technology, addressing its diverse technological and system engineering aspects, from communications to renewable energy. Complete with examples and case studies of smart grid systems and solutions, the book provides industry professionals with a systematic overview of smart grid building blocks, key elements, challenges, and standards development. Coverage includes the main architectures used to design smart grid systems, critical infrastructures such as cybersecurity, next generation research trends, plus cloud computing, X-Grids, and other cutting-edge topics.

## Physical Sciences, Engineering and Architecture



### Smart Grid and Big Data

Theory and Practice

**By:** Robert C. Qiu

**Category:** Technology & Engineering > Mobile & Wireless Communications

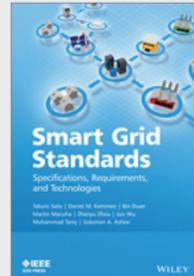
**ISBN 10:** 1118494059

**ISBN 13:**

9781118494059

**Price:** USD 120 **Pages:** 464

**Ship Date:** Mar 2, 2015



### Smart Grid Standards

Specifications, Requirements, and Technologies

**By:** Takuro Sato

**Category:** Technology & Engineering > Power Resources > General

**ISBN 10:** 1118653696

**ISBN 13:**

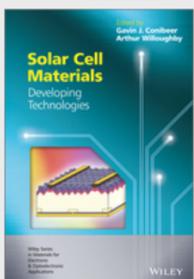
9781118653692

**Pages:** 425

**Ship Date:** Jun 16, 2014

#### ABOUT THE BOOK

A fully comprehensive introduction to smart grid standards and their applications for developers, consumers and service providers. The critical role of standards for smart grid has already been realized by world-wide governments and industrial organizations. There are hundreds of standards for Smart Grid which have been developed in parallel by different organizations. It is therefore necessary to arrange those standards in such a way that it is easier for readers to easily understand and select a particular standard according to their requirements without going into the depth of each standard, which often spans from hundreds to thousands of pages. The book will allow people in the smart grid areas and in the related industries to easily understand the fundamental standards of smart grid, and quickly find the building-block standards they need from hundreds of standards for implementing a smart grid system. The authors highlight the most advanced works and efforts now under way to r... [Read more »](#)



### Solar Cell Materials

Developing Technologies

**By:** Arthur Willoughby

**Series:** Wiley Series in Materials for Electronic & Optoelectronic Applications

**Editor:** Gavin J. Conibeer

**Category:** Technology & Engineering > Material Science

**ISBN 10:** 0470065516

**ISBN 13:**

9780470065518

**Pages:** 342

**Ship Date:** Jun 23, 2014

#### ABOUT THE BOOK

This book presents a comparison of solar cell materials, including both new materials based on organics, nanostructures and novel inorganics and developments in more traditional photovoltaic materials. It surveys the materials and materials trends in the field including third generation solar cells (multiple energy level cells, thermal approaches and the modification of the solar spectrum) with an eye firmly on low costs, energy efficiency and the use of abundant non-toxic materials.



### Statistics for Exercise Science and Health with Microsoft Office Excel

**By:** J. P. Verma

**Category:** Mathematics > Probability & Statistics > General

**ISBN 10:** 1118855213

**ISBN 13:**

9781118855218

**Pages:** 752

**Ship Date:** Jul 8, 2014

#### ABOUT THE BOOK

This book introduces the use of statistics to solve a variety of problems in exercise science and health and provides readers with a solid foundation for future research and data analysis. Statistics for Exercise Science and Health with Microsoft Office Excel: Aids readers in analyzing their own data using the presented statistical techniques combined with Excel. Features comprehensive coverage of hypothesis testing and regression models to facilitate modeling in sports science. Utilizes Excel to enhance reader competency in data analysis and experimental designs. Includes coverage of both binomial and poisson distributions with applications in exercise science and health. Provides solved examples... [Read more »](#)

#### ABOUT THE AUTHOR

J. P. Verma, PhD, is Professor of Statistics and Director of the Center for Advanced Studies at Lakshmi Bai National Institute of Physical Education in Gwalior, India. Professor Verma is an active researcher in sports modeling and data analysis and has conducted many workshops on research methodology, research designs, multivariate analysis, statistical modeling, and data analysis for students of management, physical education, social science, and economics.



## Physical Sciences, Engineering and Architecture



**ISBN 10:** 1118228960  
**ISBN 13:**  
9781118228968  
**Pages:** 700

**Ship Date:** May 5, 2014

### Statistics for Scientists and Engineers

**By:** R. Chattamvelli

**Category:** Mathematics > Probability & Statistics > General

#### ABOUT THE BOOK

Covering descriptive statistics with an emphasis on scientific and engineering applications, *Statistics for Scientists and Engineers* brings to light new programming ideas, algorithms, and equations. Providing insight on coding complex algorithms using the "loop unrolling technique," author R. Chattamvelli includes end-of-chapter exercises and recommended reading lists, data sets and illustrative examples, new algorithms and equations not available anywhere else, and a section on dynamic data dependent systems, such as industrial robots, unmanned aerial vehicles (UAV) and pilot-less machines. Unlike other books in the field, this text deals exclusively with descriptive statistics.



**ISBN 10:** 1118066707

**ISBN 13:**  
9781118066706

**Pages:** 448

**Ship Date:** Mar 3, 2014

### Street Design

The Secret to Great Cities and Towns

**By:** Victor Dover

**Category:** Architecture > Urban & Land Use Planning

#### ABOUT THE BOOK

"The best streets in the world's villages, towns, and cities—whether modest or grand—continually remind one that simplicity is part of the recipe for success in this art. The advice of Victor Dover and John Massengale, their historic examples and their own designs, reflect that simplicity."—From the Foreword by HRH The Prince of Wales "Street Design is a lucid, practical and altogether indispensable guide for envisioning and creating vibrant 21st century towns and cities. It should be required reading for every local political leader, planner, architect, real estate developer and engaged urban citizen in America."—Kurt Andersen, host of S... [Read more »](#)

#### ABOUT THE AUTHOR

Victor Dover, FAICP, is cofounder of Dover, Kohl & Partners Town Planning based in Coral Gables, Florida, a design practice focused on restoring healthy neighborhoods as the basis for sound communities and regions. He is former national chair of the Congress for New Urbanism (CNU) and lead designer of more than 150 neighborhoods, urban revitalization programs, and regional plans across the United States and abroad. John Montague Massengale, AIA, is an architect and urban designer in New York City. He is a board member of the CNU, which has been called "the most important phenomenon to emerge in American architecture in the post-Cold War era" and a former Director of the Institute of... [Read more »](#)



**ISBN 10:** 1118456297  
**ISBN 13:**  
9781118456293  
**Pages:** 432

**Ship Date:** Jun 23, 2014

**2nd Edition**

### Sustainable Commercial Interiors

**By:** Penny Bonda

**Category:** Architecture > Interior Design > General

#### ABOUT THE BOOK

Discover new approaches to green design and sustainable building with this comprehensive guide. There's a substantial amount of information designers and architects need to understand about sustainability and commercial projects, especially as expectations for professionals in the industry become clearer. Luckily, the second edition of *Sustainable Commercial Interiors* has been revamped to serve as a comprehensive guide for anyone looking to understand the latest in green and sustainable design. Fully revised throughout, this resource now includes frameworks based on the new LEED v4 rating system, and provides fifteen brand-new case studies that document green design and building strategies... [Read more »](#)

#### ABOUT THE AUTHOR

Penny Bonda is a Fellow of the U.S. Green Building Council and the American Society of Interior Designers. She is the founding chair and a principal author of LEED for Commercial Interiors. Her organization, Ecoimpact Consulting, assists businesses achieve a competitive advantage through sustainability. Katie Sosnowchik is a veteran journalist and former magazine editor focusing on design and sustainability. She is now communications director for HDR's global architecture practice, helping share the firm's knowledge of how design thinking can shape behaviors and outcomes, and how the design of buildings, spaces and products can add meaning and value to clients. Summer Minchew is a part... [Read more »](#)



**ISBN 10:** 1118603680

**ISBN 13:**  
9781118603680

**Pages:** 704

**Ship Date:** Aug 18, 2014

**2nd Edition**

### Sustainable Residential Interiors

**By:** Annette Stelmack

**Category:** Architecture > Interior Design > General

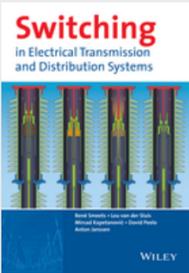
#### ABOUT THE BOOK

An illustrated guide to healthy, sustainable, and high-performing design methodologies. A great deal of expertise, hands-on experience, and thorough research has gone into the preparation of Annette Stelmack's book. In this era, managing complex issues for healthier, greener, safer, and more resilient communities more effectively has become a major priority. An essential guide and much needed tool, it will enable interior designers to create homes within communities that are better places for our current and next generations."—Linda Sorrento, FASID, IIDA, LEED-AP BD+C, Executive Director, National Academy of Environmental Design, Washington, DC "It is rare ... [Read more »](#)

#### ABOUT THE AUTHOR

Annette Stelmack, LEED AP BD+C, is the founding principal of design firm Inspirit. A nationally recognized leader, educator, and author she specializes in providing healthy, high performing, and sustainable interiors for multi-unit housing, residential, hospitality and spa projects. An expert trainer she creates and delivers sustainable curriculum through strategic public and private partnerships, such as USGBC LEED Faculty™, ASID, and IDCEC. A founding member of USGBC Colorado, Annette pioneered Colorado's sustainability community and serves in multiple volunteer leadership roles nationally for USGBC, Center for Green Schools, and ASID. Kari Foster, Owner & Principal Des... [Read more »](#)

## Physical Sciences, Engineering and Architecture



**ISBN 10:** 1118381351  
**ISBN 13:**  
9781118381359  
**Pages:** 464

**Ship Date:** Sep 9, 2014

### Switching in Electrical Transmission and Distribution Systems

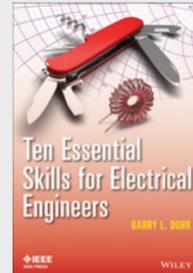
**By:** Rene Smeets  
**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

This book covers the technology of switching in systems for electrical power transmission and distribution, from medium to (and including) ultra-high voltage for alternating current (AC). Emphasis is on the electrical aspects, covering the electrical transient phenomena of switching, its background, a generic description of equipment used for switching, various application examples, specification and commissioning of such equipment and testing aspects. The different methods to test high-voltage circuit-breakers are presented for each type of switching condition. In order to be close to the user, the standardized requirement for such equipment is followed as a guideline. This book supplies pr... [Read more »](#)

#### ABOUT THE AUTHOR

René Smeets has for more than 30 years been involved in switching with switchgear ranging from 10–1200 kV. For the last 19 years he has worked at DNV GL (former KEMA) high-power laboratory in the Netherlands. Alongside this he is active in various positions in CIGRE: as convener and member of working groups dealing with switching equipment and testing. He is also a convener of IEC standardization teams with respect to high-voltage switchgear. He is a Fellow of IEEE. Amongst his scientific activities, he is currently chairman of the “Current Zero Club”, an informal group of specialists dealing with current interruption phenomena. He holds a Ph.D. and was appointe... [Read more »](#)



**ISBN 10:** 1118527429  
**ISBN 13:**  
9781118527429  
**Pages:** 268

**Ship Date:** Jun 23, 2014

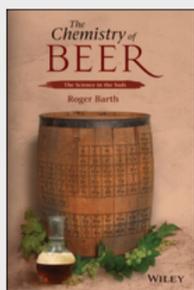
**6th Edition**

### Ten Essential Skills for Electrical Engineers

**By:** Barry L. Dorr  
**Category:** Technology & Engineering > Engineering (General)

#### ABOUT THE BOOK

Engineers know that, as in any other discipline, getting a good job requires practical, up-to-date skills. An engineering degree provides a broad set of fundamentals. Ten Essential Skills applies those fundamentals to practical tasks required by employers. Written in a user-friendly, no-nonsense format, the book reviews practical skills using the latest tools and techniques, and features a companion website with interview practice problems and advanced material for readers wishing to pursue additional skills. With this book, aspiring and current engineers may approach job interviews confident in their grasp of the engineering skills that their employers seek.



**ISBN 10:** 1118674979  
**ISBN 13:**  
9781118674970  
**Pages:** 348

**Ship Date:** Nov 24, 2014

### The Chemistry of Beer

The Science in the Suds  
**By:** Roger Barth  
**Category:** Science > Chemistry > General

#### ABOUT THE BOOK

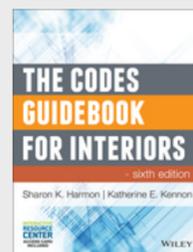
Discover the science of beer and beer makingEver wondered just how grain and water are transformed into an effervescent, alcoholic beverage? From prehistory to our own time, beer has evoked awe and fascination; it seems to have a life of its own. Whether you're a home brewer, a professional brewer, or just someone who enjoys a beer, The Chemistry of Beer will take you on a fascinating journey, exp... [Read more »](#)

#### ABOUT THE AUTHOR

ROGER BARTH, PhD, has been a professor in the Department of Chemistry at West Chester University since 1985. He teaches courses in General Chemistry, Physical Chemistry, and Introductory Chemistry. Dr. Barth also created and teaches a course on the Chemistry of Beer.

#### Reviews & Quotes

“I can see this being an essential reference book, along with Charles Bamforth’s Beer: tap into the art and science of brewing, for anyone involved in brewing, including home-brewers.” (Chemistry & Industry, 1 August 2014)“The chemistry of beer sounds like a perfect read for a lapsed chemist such as myself who enjoys beer and brewing science. . . The text is acces... [Read more »](#)



**ISBN 10:** 111880936X  
**ISBN 13:**  
9781118809365  
**Pages:** 552

**Ship Date:** Sep 22, 2014

### The Codes Guidebook for Interiors

**By:** Sharon Koomen Harmon  
**Category:** Architecture > Interior Design > General

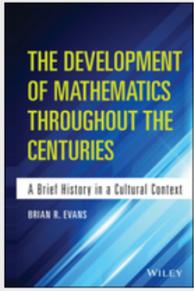
#### ABOUT THE BOOK

All new, print copies of this book features access to the Interactive Resource Center. The IRC is an online learning environment which contains animations, interactive exercises, and other learning resources tied to the book. An access card with redemption code for the online IRC is included with all new, print copies or can be purchased separately. Get up to speed on the latest codes with the complete reference for interiors. The Codes Guidebook for Interiors, Sixth Edition is the standards reference of choice for designers and architects, and the only guide devoted exclusively to codes applicable to interiors. With jargon-free explanations of all standards and regulation... [Read more »](#)

#### ABOUT THE AUTHOR

SHARON KOOMEN HARMON has more than twenty-five years’ experience in interior design and project management. Combining this with her strong interest in natural health, she now owns Life Design for Health, which helps people pursue a holistic approach to health and well-being. KATHERINE E. KENNON, AIA, is a professional architect, educator, and code consultant. She is an adjunct professor at Watkins College of Art, Design, and Film in Nashville, TN. She also conducts continuing education seminars on design, building codes, and accessibility issues for design students and professionals.

## Physical Sciences, Engineering and Architecture



### The Development of Mathematics Throughout the Centuries

A Brief History in a Cultural Context

**By:** Brian Evans

**Category:** Mathematics > History & Philosophy

#### ABOUT THE BOOK

Throughout the book, readers take a journey throughout time and observe how people around the world have understood these patterns of quantity, structure, and dimension around them. The Development of Mathematics Throughout the Centuries: A Brief History in a Cultural Context provides a brief overview of the history of mathematics in a very straightforward and understandable manner and also addresses major findings that influenced the development of mathematics as a coherent discipline. This book: Highlights the contributions made by various world cultures including African, Egyptian, Babylonian, Chinese, Indian, Islamic, and pre-Columbian American mathematics Features an approach that is not t... [Read more »](#)

#### ABOUT THE AUTHOR

BRIAN R. EVANS is Department Chair and Associate Professor of Mathematics Education in the School of Education at Pace University in New York. He has authored over twenty-five publications and teaches pedagogical and content courses in mathematics including the history of mathematics. He is also managing editor for the peer reviewed Journal of the National Association for Alternative Certification.

**ISBN 10:** 1118853849

**ISBN 13:**  
9781118853849

**Pages:** 252

**Ship Date:** Jun 23, 2014



### The Handbook of Interior Design

**Editor:** Jo Ann Asher Thompson

**Category:** Architecture > Interior Design > General

#### ABOUT THE BOOK

The Handbook of Interior Design explores ways of thinking that inform the discipline of interior design. It challenges readers to consider the connections within theory, research, and practice and the critical underpinnings that have shaped interior design. Offers a theory of interior design by moving beyond a descriptive approach to the discipline to a 'why and how' study of interiors Provides... [Read more »](#)

#### ABOUT THE AUTHOR

Jo Ann Asher Thompson, Ph.D., is Professor Emeritus of Interior Design at Washington State University. Thompson served as President and Chairman of the Board of the Interior Design Educators Council (IDEC) and served five years as Editor-in-Chief of the Journal of Interior Design. She is a recipient of the International Interior Design Association's (IIDA) Educator of the Year Award. Amongst... [Read more »](#)

#### Reviews & Quotes

"The Handbook of Interior Design captures some of the best thinking available in the field. We are reminded of the value of design in shaping the human experience and the power we hold as designers to positively impact society." Lisa Waxman, Florida State University "In this important collection of work gathered and edited by Thompson and Blossom, I am struck by t... [Read more »](#)

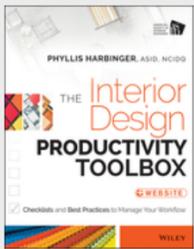
**ISBN 10:** 1444336282

**ISBN 13:**  
9781444336283

**Price:** USD 199.95

**Pages:** 560

**Ship Date:** Nov 17, 2014



### The Interior Design Productivity Toolbox

Checklists and Best Practices to Manage Your Workflow

**By:** Phyllis Harbinger

**Category:** Architecture > Interior Design > General

#### ABOUT THE BOOK

Get organized and streamline your workflow with this A-Z accountability system. Design is only part of an interior designer's job—you're also responsible for scheduling client meetings, conducting design surveys, creating drawings and specs, and overseeing installation. Multiply by the number of projects on your plate, and you have a recipe for overwhelming disorganization. The Interior Design Productivity Toolbox helps you juggle multiple projects with ease, with a comprehensive self-management system tailored to the needs of interior designers and decorators. Features include: Detailed checklists that highlight weak spots and warn against common pitfalls Covers re... [Read more »](#)

#### ABOUT THE AUTHOR

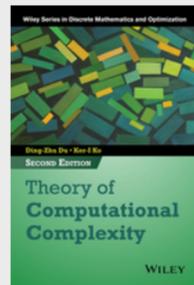
PHYLLIS HARBINGER, ASID, CID, NCIDQ, is principal and owner of Design Concepts/Interiors, LLC, an award-winning design firm that has served clients globally for over 20 years and an adjunct assistant professor at the Fashion Institute of Technology, where she has inspired students since 1998. She has appeared as both a winning designer and a guest judge on HGTV, and her work has been featured in numerous home and design magazines. In addition to being NCIDQ certified and a New York State Certified Interior Designer, Ms. Harbinger is also a Certified Feng Shui Practitioner, which enables her to integrate Eastern methods and theories of design and balance into her practice. She is a profes... [Read more »](#)

**ISBN 10:** 111868043X

**ISBN 13:**  
9781118680438

**Pages:** 208

**Ship Date:** Aug 4, 2014



### Theory of Computational Complexity

**By:** Ding-Zhu Du

**Series:** Wiley Series in Discrete Mathematics and Optimization

**Category:** Mathematics > Discrete Mathematics

#### ABOUT THE BOOK

Praise for the First Edition "...complete, up-to-date coverage of computational complexity theory...the book promises to become the standard reference on computational complexity." - Zentralblatt MATHA thorough revision based on advances in the field of computational complexity and readers' feedback, the Second Edition of Theory of Computational Complexity presents updates to the principles and applications essential to understanding modern computational complexity theory. The new edition continues to serve as a comprehensive resource on the use of software and computational approaches for solving algorithmic problems and the related difficulties that can be encountered. Maintaining exten... [Read more »](#)

#### ABOUT THE AUTHOR

DING-ZHU DU, PhD, is Professor in the Department of Computer Science at the University of Texas at Dallas. He has published over 180 journal articles in his areas of research interest, which include design and analysis of approximation algorithms for combinatorial optimization problems and communication networks. Dr. Du is also the coauthor of Problem Solving in Automata, Languages, and Complexity, also published by Wiley. KER-I KO, PhD, is Professor in the Department of Computer Science at National Chiao Tung University, Taiwan. He has published extensively in his areas of research interest, which include computational complexity theory and its applications to numerical computation. Dr. Ko i... [Read more »](#)

**ISBN 10:** 1118306082

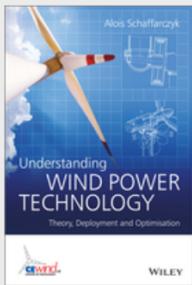
**ISBN 13:**  
9781118306086

**Pages:** 512

**Ship Date:** Jun 23, 2014

**2nd Edition**

## Physical Sciences, Engineering and Architecture



### Understanding Wind Power Technology

Theory, Deployment and Optimisation

**Editor:** Alois Schaffarczyk

**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

Wind energy technology has progressed enormously over the last decade. In coming years it will continue to develop in terms of power ratings, performance and installed capacity of large wind turbines worldwide, with exciting developments in offshore installations. Designed to meet the training needs of wind engineers, this introductory text puts wind energy in context, from the natural resource to ... [Read more »](#)

#### ABOUT THE AUTHOR

Professor Alois Schaffarczyk, Kiel University of Applied Sciences, Kiel, Germany Professor Schaffarczyk is a founding member and previous manager of CEwind eG, the consortium for wind energy research between Schleswig-Holstein's Universities in Germany. He has worked in the field of wind turbine aerodynamics since 1997 and currently teaches courses in the CEwind MSc. Wind Engineering program.... [Read more »](#)

#### Reviews & Quotes

"Spanning the scientific basics, practical implementations and the state of modern technology, this title looks like an authoritative resource for anyone who needs to ensure their turbine knowledge is up to scratch." (Real Power, 1 April 2014)

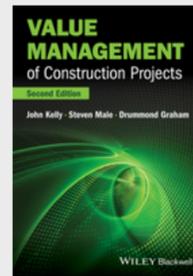
**ISBN 10:** 1118647513

**ISBN 13:**

9781118647516

**Pages:** 482

**Ship Date:** Aug 4, 2014



### Value Management of Construction Projects

**By:** John Kelly

**Category:** Technology & Engineering > Construction > General

#### ABOUT THE BOOK

Value management evaluates alternative construction materials and systems with a view to saving money without impacting on building performance or the construction programme. It has become a well established tool in the construction industry, having been endorsed in a range of government sponsored reports. In the current economic climate, clients are increasingly looking to employ value management as a way of ensuring they generate maximum value from their investments. Since publication of the first edition in 2004, value management has developed significantly. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of... [Read more »](#)

#### ABOUT THE AUTHOR

John Kelly was, until his recent retirement, the principal of Axoss Ltd, a company promoting and undertaking consultancy, training and research in value management, value engineering, whole life costing and whole life value. Prior to forming Axoss he was AWG Professor of Construction Innovation in the School of the Built and Natural Environment, Glasgow Caledonian University. Steven Male is the Balfour Beatty Professor of Building Engineering and Construction Management, School of Civil Engineering, University of Leeds. Drummond Graham is a Director at Thomson Bethune property and Construction Consultants, Edinburgh. He is responsible for developing the Management Consultancy arm of Thomson Be... [Read more »](#)

**ISBN 10:** 1118351231

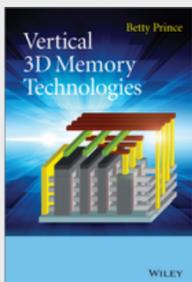
**ISBN 13:**

9781118351239

**Pages:** 582

**Ship Date:** Oct 20, 2014

**2nd Edition**



### Vertical 3D Memory Technologies

**By:** Betty Prince

**Category:** Technology & Engineering > Electronics > Semiconductors

#### ABOUT THE BOOK

The large scale integration and planar scaling of individual system chips is reaching an expensive limit. If individual chips now, and later terrabyte memory blocks, memory macros, and processing cores, can be tightly linked in optimally designed and processed small footprint vertical stacks, then performance can be increased, power reduced and cost contained. This book reviews for the electronics industry engineer, professional and student the critical areas of development for 3D vertical memory chips including: gate-all-around and junction-less nanowire memories, stacked thin film and double gate memories, terrabit vertical channel and vertical gate stacked NAND flash, large scale st... [Read more »](#)

#### ABOUT THE AUTHOR

Dr Betty Prince has over 30 years' experience in the semiconductor industry having worked with Texas Instruments, N.V. Philips, Motorola, R.C.A., and Fairchild and is currently CEO of Memory Strategies International. She has authored four books and served from 1991-1994 on the Technical Advisory Board of IEEE Spectrum magazine. She is a Senior Life Member of the IEEE and served as an IEEE SSCS Distinguished Lecturer and on the Program Committee of the IEEE Custom Integrated Circuit conference. She was founder of the JEDEC JC-16 Interface Standards Committee and was active for many years on the JC-42 Memory Committee where she was co-chair of the SRAM standards group. She has been U.S. ... [Read more »](#)

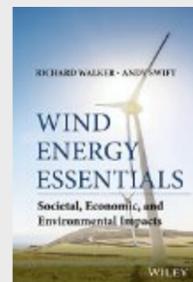
**ISBN 10:** 1118760514

**ISBN 13:**

9781118760512

**Pages:** 384

**Ship Date:** Oct 20, 2014



### Wind Energy Essentials

Societal, Economic, and Environmental Impacts

**By:** Andrew Swift

**Category:** Technology & Engineering > Power Resources > General

#### ABOUT THE BOOK

The first few chapters of the book include a history of wind power and the social impacts of both electricity and wind power from a historical perspective, a discussion of basic electrical terms that those involved in the wind energy industry will need to be familiar with, and a primer on the conversion of power in the wind to electricity. Much of the second half of the book is devoted to comparing wind energy to other forms of electric generation, both renewable and non-renewable sources. In order to have a true understanding of the impact of wind energy on society, one also has to have a thorough understanding of the impacts that other sources of electric generation have, such as fossil-fueled plants or nuclear power plants. The comparison of electric generation sources includes a review how such sources are typically utilized within the electric system, as well as the economic factors and environmental considerations that affect which resources utilities or operators of electric gri... [Read more »](#)

**ISBN 10:** 1118877896

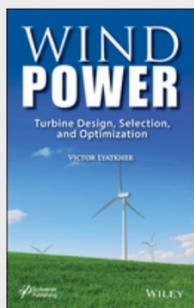
**ISBN 13:**

9781118877890

**Price:** USD 110 **Pages:** 550

**Ship Date:** Nov 10, 2014

**Physical Sciences, Engineering and Architecture**



**ISBN 10:** 111872092X

**ISBN 13:**  
9781118720929

**Pages:** 328

**Ship Date:** Aug 4, 2014

## **Wind Power**

Turbine Design, Selection, and Optimization

**By:** Victor Lyatkher

**Category:** Science > Energy

### **ABOUT THE BOOK**

An up-to-date and thorough treatment of the technologies, practical applications, and future of wind power, with the pros and cons and technical intricacies of various types of wind turbines and wind power prediction. With the demand for energy outstripping availability from conventional sources such as fossil fuels, new sources of energy must be found. Wind power is the most mature of all of the renewable or alternative sources of energy being widely used today. With many old wind turbines becoming obsolete or in need of replacement, new methods and materials for building turbines are constantly being sought after, and troubleshooting, from an engineering perspective, is paramount to the oper... [Read more »](#)

### **ABOUT THE AUTHOR**

Victor Lyatkher is a professor, engineer, and inventor and has worked for over thirty years in the wind and hydro-power industry. Educated in Moscow and Leningrad, Dr. Lyatkher has developed and patented numerous processes and machines which deal mainly with renewable energy sources such as tidal power, water turbines, and vertical axis wind turbines. He developed a new method of forecasting long-term variations in the level of the Caspian Sea and designed a new kind of low head turbine. He has been the recipient of several prizes and awards for his accomplishments, including the Prize of the Council of Ministers of the USSR, the Award of the Indian Society of Earthquake Technology, and five... [Read more »](#)