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*Wind Energy Explained* - James F. Manwell  
2010-09-14

Wind energy's bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students. This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. "provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy." (IEEE Power & Energy Magazine, November/December 2003) "deserves a place in the library of every university and college where renewable energy is taught." (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) "a very comprehensive and well-organized treatment of the current status of wind power." (Choice, Vol. 40, No. 4, December 2002)

Information Rules - Carl Shapiro 1999

As one of the first books to distill the economics of information and networks into practical business strategies, this is a guide to the winning moves that can help business leaders-- from writers, lawyers and finance professional to executives in the entertainment, publishing and

hardware and software industries-- navigate successfully through the information economy.

*CUCKOO'S EGG* - Clifford Stoll 2012-05-23

Before the Internet became widely known as a global tool for terrorists, one perceptive U.S. citizen recognized its ominous potential. Armed with clear evidence of computer espionage, he began a highly personal quest to expose a hidden network of spies that threatened national security. But would the authorities back him up? Cliff Stoll's dramatic firsthand account is "a computer-age detective story, instantly fascinating [and] astonishingly gripping" (Smithsonian). Cliff Stoll was an astronomer turned systems manager at Lawrence Berkeley Lab when a 75-cent accounting error alerted him to the presence of an unauthorized user on his system. The hacker's code name was "Hunter"—a mysterious invader who managed to break into U.S. computer systems and steal sensitive military and security information. Stoll began a one-man hunt of his own: spying on the spy. It was a dangerous game of deception, broken codes, satellites, and missile bases—a one-man sting operation that finally gained the attention of the CIA . . . and ultimately trapped an international spy ring fueled by cash, cocaine, and the KGB.

**The Fourth Industrial Revolution** - Klaus Schwab 2017-01-03

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is

different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

**LOGO! 8** - Stefan Kruse 2015-04-13

Addressing students and engineers, but also hobby engineers, this practical guide will help to easily and cost-effectively implement technical solutions in home and installation technology, as well as small-scale automation solutions in machine and plant engineering. The book descriptively illustrates how to plan LOGO! 8 projects, develop programs and how to select the hardware. Standard control technology scenarios are demonstrated by building on the fundamentals of modern information technology and with the help of several real-life sample switches. In addition, readers are provided with practice-oriented descriptions of various basic

and special LOGO! 8 modules with which specific tasks can be very flexibly implemented. Compared to former generations and competing products, LOGO! 8 comprises an integrated Ethernet interface, easy Internet control, a space-saving design and also more digital and analog outputs. The basic and special functions of the logic module can be used to replace several switching devices. Equipped with an Ethernet interface and a Web server, LOGO! 8 devices offer more functionalities for remote access via smartphone or other devices. With the LOGO! Soft Comfort V8 software, program and communication functions for up to 16 network users can be conveniently programmed and simulated.

**IoT Fundamentals** - David Hanes 2017-05-30

Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart+connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you'll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

Handbook of Air Conditioning and Refrigeration

- Shan K. Wang 2001

\* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook \*

Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume \* A definitive reference source on the design, selection and operation of A/C and refrigeration systems

*Recollections* - Werner von Siemens 2008

Management Information Systems - Kenneth C.

Laudon 2004

Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases.

Standard Methods for the Examination of Water and Wastewater - 1913

**Business Ethics** - Stephen M. Byars 2018-09-24

The Telegraph Manual - Taliaferro Preston Shaffner 1859

**BIM Handbook** - Rafael Sacks 2018-07-03

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this

edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

**How People Learn II** - National Academies of Sciences, Engineering, and Medicine 2018-09-27

There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the

foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. How People Learn II will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

*Optimum Cooling of Data Centers* - Jun Dai  
2013-11-20

This book describes the use of free air cooling to improve the efficiency of, and cooling of, equipment for use in telecom infrastructures. Discussed at length is the cooling of communication installation rooms such as data centers or base stations, and this is intended as a valuable tool for the people designing and manufacturing key parts of communication networks. This book provides an introduction to current cooling methods used for energy reduction, and also compares present cooling methods in use in the field. The qualification methods and standard reliability assessments are reviewed, and their inability to assess the risks of free air cooling is discussed. The method of identifying the risks associated with free air cooling on equipment performance and reliability is introduced. A novel method of assessment for free air cooling is also proposed that utilizes prognostics and health management (PHM). This book also: Describes how the implementation of free air cooling can save energy for cooling within the telecommunications infrastructure. Analyzes the potential risks and failures of mechanisms possible in the implementation of free air cooling, which benefits manufacturers and equipment designers. Presents prognostics-based assessments to identify and mitigate the risks of telecommunications equipment under free air cooling conditions, which can provide the early warning of equipment failures at operation stage without disturbing the data centers' service. *Optimum Cooling for Data Centers* is an ideal book for researchers and engineers interested in designing and manufacturing equipment for use in telecom infrastructures.

*Planning Guide for Maintaining School Facilities*  
- Tom Szuba 2003

This title is no longer available in print. However, please visit the NCES website at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid>

=2003347 to view an electronic version of the text. As America's school buildings age, we face the growing challenge of maintaining the nation's education facilities at a level that enables our teachers to meet the needs of the 21st century learners. This tool has been developed to help readers better understand why and how to develop, implement, and evaluate a facilities maintenance plan. It focuses on: maintenance as a vital task in the responsible management of an education organization, the needs of an education audience, strategies and procedures for planning, implementing, and evaluating maintenance programs, a process to be followed, rather than a canned set of "one size fits all" solutions, and recommendations based on "best practices", rather than mandates. The document offers recommendations on the following important issues, which serve as chapter headings: Introduction to School Facilities Maintenance Planning Planning for School Facilities Maintenance Facilities Audits (Knowing What You Have) Providing a Safe Environment for Learning Maintaining School Facilities and Grounds Effectively Managing Staff and Contractors Evaluating Facilities Maintenance Efforts

*MRI from Picture to Proton* - Donald W. McRobbie 2017-04-13

MR is a powerful modality. At its most advanced, it can be used not just to image anatomy and pathology, but to investigate organ function, to probe in vivo chemistry, and even to visualise the brain thinking. However, clinicians, technologists and scientists struggle with the study of the subject. The result is sometimes an obscurity of understanding, or a dilution of scientific truth, resulting in misconceptions. This is why MRI from Picture to Proton has achieved its reputation for practical clarity. MR is introduced as a tool, with coverage starting from the images, equipment and scanning protocols and traced back towards the underlying physics theory. With new content on quantitative MRI, MR safety, multi-band excitation, Dixon imaging, MR elastography and advanced pulse sequences, and with additional supportive materials available on the book's website, this new edition is completely revised and updated to reflect the best use of modern MR technology.

**National Electrical Code** - National Fire Protection Association 2010

Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical design, installation, inspection, and safety.

**Railway Applications. Electronic Equipment Used on Rolling Stock** - British Standards Institution 1996

*The Risk IT Practitioner Guide* - Isaca 2009

[Building Services Journal](#) - 2006

**Strategic Management and Business Policy** - Thomas L. Wheelen 1998-01

This text provides the Strategic Management and Business Policy student with a presentation of traditional and new strategic management topics. These topics include: corporate governance, hypercompetition, competitive strategy, outsourcing, mass customization, technology, international issues, environmental trends and ethics.

**Catching the Process Fieldbus** - James Powell 2012-09-03

Industrial communications are a multidimensional, occasionally confusing, mixture of fieldbuses, software packages, and media. The intent of this book is to make it all accessible. When industrial controls communication is understood and then installed with forethought and care, network operation can be both beneficial and painless. To that end,

the book is designed to speak to you, whether you're a beginner or interested newbie, the authors guide you through the bus route to communication success. However, this is not a how-to manual. Rather, think of it as a primer laying the groundwork for controls communication design, providing information for the curious to explore and motivation for the dedicated to go further.

**Superpave Mix Design** - Asphalt Institute 2001-01-01

**Gas Turbine Engineering Handbook** - Meherwan P. Boyce 2017-09-01

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them.

Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

Maritime Logistics - Dong-Wook Song

2015-04-03

Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. At the cutting edge in its assessment of the industry, *Maritime Logistics* covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, *Maritime Logistics* provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more.

**IBM Technical Computing Clouds** - Dino

Quintero 2013-10-28

This IBM® Redbooks® publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures, optimize energy usage, or re-use the infrastructure. This book strengthens IBM SmartCloud® solutions, in particular IBM Technical Computing clouds, with a well-defined and documented deployment model within an IBM System x® or an IBM Flex System™. This provides clients with a cost-effective, highly scalable, robust solution with a planned foundation for scaling, capacity, resilience, optimization, automation, and monitoring. This book is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing cloud-computing solutions and support.

*Knowing Knowledge* - George Siemens 2006

Why does so much of our society look as it did in the past? Our schools, our government, our religious organizations, our media - while more complex, have maintained their general structure and shape. Classroom structure today, with the exception of a computer or an LCD projector, looks remarkably unchanged: teacher at the front, students in rows. Our business processes are still built on theories and viewpoints that existed over a century ago (with periodic amendments from thinkers like Drucker 2). In essence, we have transferred (not transformed) our physical identity to online spaces and structures.

**Switchgear Manual** - Hennig Gremmel 2007

**Electric Power Substations Engineering** -

John D. McDonald 2016-04-19

Combining select chapters from Grigsby's standard-setting *The Electric Power Engineering Handbook* with several chapters not found in the original work, *Electric Power Substations Engineering* became widely popular for its comprehensive, tutorial-style treatment of the theory, design, analysis, operation, and protection of power substations. For its

**Computer Security** - William Stallings 2012

*Computer Security: Principles and Practice, 2e*,

is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically - and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named *Computer Security: Principles and Practice, 1e*, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.

Zigbee Wireless Networking - Drew Gislason

2008-10-09

ZigBee is a standard based on the IEEE 802.15.4 standard for wireless personal networks. This standard allows for the creation of very low cost and low power networks - these applications run for years rather than months. These networks

are created from sensors and actuators and can wireless control many electrical products such as remote controls, medical, industrial, and security sensors. Hundreds of companies are creating applications including Mitsubishi, Motorola, Freescale, and Siemens. This book is written for engineers who plan to develop ZigBee applications and networks, to understand how they work, and to evaluate this technology to see if it is appropriate to a particular project. This book does not simply state facts but explains what ZigBee can do through detailed code examples. \*Details how to plan and develop applications and networks \*Zigbee sensors have many applications including industrial automation, medical sensing, remote controls, and security \*Hot topic for today's electrical engineer because it is low cost and low power

**Security in Computing** - Charles P. Pfleeger 2009

Chromatography: Applications - Erich Heftmann 1992

**Transformers** - 2005

On cover: Reclamation, Managing Water in the West. Describes how transformers work, how they are maintained, and how to test and evaluate their condition.

**The Sources of Innovation** - Eric von Hippel 1988

It has long been assumed that product innovations are usually developed by product manufacturers, but this book shows that innovation occurs in different places in different industries.

The Unabridged 1841 Text of The Way of Life - Charles Hodge 2019-05-11

It is one of the clearest principles of divine revelation, that holiness is the fruit of truth; and it is one of the plainest inferences from that principle, that the exhibition of the truth is the best means of promoting holiness. Christians regard the word of God as the only infallible teacher of those truths which relate to the salvation of men....If this little book should be instrumental, by the simple exhibition of the truth, of pointing out the WAY OF LIFE to those who are anxious to know what they must believe and what they must experience in order to be saved, it will answer the design of its

preparation and publication. - from the text The intent of this edition is to make this work by Charles Hodge accessible to the modern reader, without altering its essential character, and to make it available in both paperback and electronic versions. To that end, the editor has preserved the original text without revision and without discarding nineteenth century words and phrases. Typographical errors in the original have been corrected. Spelling has been updated to current American standards in most cases. The Scriptural citations originally presented as footnotes, have been incorporated into the text body. Roman numerals have been replaced with Western Arabic numerals.

**MITRE Systems Engineering Guide** - 2012-06-05

*The Essential Guide to Telecommunications* - Annabel Z. Dodd 2019-03-19

"Annabel Dodd has cogently untangled the wires and switches and technobabble of the telecommunications revolution and explained how the introduction of the word 'digital' into our legislative and regulatory lexicon will affect consumers, companies and society into the next millennium." - United States Senator Edward J. Markey of Massachusetts; Member, U.S. Senate Subcommittee on Communications, Technology, Innovation, and the Internet "Annabel Dodd has a unique knack for explaining complex technologies in understandable ways. This latest revision of her book covers the rapid changes in the fields of broadband, cellular, and streaming technologies; newly developing 5G networks; and the constant changes happening in both wired and wireless networks. This book is a must-read for anyone who wants to understand the rapidly evolving world of telecommunications in the 21st century!" - David Mash, Retired Senior Vice President for Innovation, Strategy, and Technology, Berklee College of Music Completely updated for current trends and technologies, *The Essential Guide to Telecommunications, Sixth Edition*, is the world's top-selling, accessible guide to the fast-changing global telecommunications industry. Writing in easy-to-understand language, Dodd demystifies today's most significant technologies, standards, architectures, and trends. She introduces leading providers

worldwide, explains where they fit in the marketplace, and reveals their key strategies. New topics covered in this edition include: LTE Advanced and 5G wireless, modern security threats and countermeasures, emerging applications, and breakthrough techniques for building more scalable, manageable networks. Gain a practical understanding of modern cellular, Wi-Fi, Internet, cloud, and carrier technologies Discover how key technical, business, and regulatory innovations are changing the industry See how streaming video, social media, cloud computing, smartphones, and the Internet of Things are transforming networks Explore growing concerns about security and privacy, and review modern strategies for detecting and mitigating network breaches Learn how Software Defined Networks (SDN) and Network Function Virtualization (NFV) add intelligence to networks, enabling automation, flexible configurations, and

advanced networks Preview cutting-edge, telecom-enabled applications and gear—from mobile payments to drones Whether you're an aspiring network engineer looking for a broad understanding of the industry, or a salesperson, marketer, investor, or customer, this indispensable guide provides everything you need to know about telecommunications right now. This new edition is ideal for both self-study and classroom instruction. Register your product for convenient access to downloads, updates, and/or corrections as they become available. [Official \(ISC\)2 Guide to the CISSP CBK](#) - Adam Gordon 2015-04-08

As a result of a rigorous, methodical process that (ISC) follows to routinely update its credential exams, it has announced that enhancements will be made to both the Certified Information Systems Security Professional (CISSP) credential, beginning April 15, 2015. (ISC) conducts this process on a regular basis to ensure that the examinations and