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[Official \(ISC\)2 Guide to the CISSP CBK](#) CRC Press

As the electrical industry continues to develop, one sector that still faces a range of concerns is the electrical distribution system. Excessive industrialization and inadequate billing are just a few issues that have plagued this electrical sector as it advances into the smart grid environment. Research is necessary to explore the possible solutions in fixing these problems and developing the distribution sector into an active and smart system. The Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks is a collection of innovative research on the methods and applications of solving major issues within the electrical distribution system. Some issues covered within the publication include distribution losses, improper monitoring of system, renewable energy integration with micro-grid and distributed energy sources, and smart home energy management system modelling. This book is ideally designed for power engineers, electrical engineers, energy professionals, developers, technologists, policymakers, researchers, academicians, industry professionals, and students seeking current research on improving this key sector of the electrical industry.

[Introduction To Commutative Algebra](#) CRC Press

The application of quantum mechanics to many-particle systems has been an active area of research in recent years as researchers have looked for ways to tackle difficult problems in this area. The quantum trajectory method provides an efficient computational technique for solving both stationary and time-evolving states, encompassing a large area of quantum mechanics. Quantum Trajectories brings the expertise of an international panel of experts who focus on the epistemological significance of quantum mechanics through the quantum theory of motion. Emphasizing a classical interpretation of quantum mechanics as developed by de Broglie and Bohm, this volume: Introduces the concept of the quantum theory of motion Explains the connection with conventional quantum mechanics Presents various numerical techniques generated from the Bohmian approach Describes the epistemological significance of quantum trajectories Provides an authoritative account of the foundations of quantum mechanics vis-à-vis that of the Bohmian mechanics The popularity of using the quantum trajectory as a computational tool has exploded over the last decade, finally bringing this methodology to the level of practical applications. Many of the experts in the field who have either developed the methodology or have improved upon it have contributed chapters to this volume, making it a state-of-the-art expression of the field as it exists today and providing insight into the future of this technology.

[DVD Authoring and Production](#) CRC Press

Throughout the last two decades, the flat-steel production industry has experienced great success with the introduction of new technologies and manufacturing advances for both hot and cold steel-rolling. These improvements are resulting in significantly reduced production costs and better product quality. Recent consolidation of the steel industry-

[Advanced R](#) CRC Press

Students have questions, this book has answers: What is the structure and function of natural systems? Where and how do populations and communities live? How have human impacts altered ecosystems? How can we lessen impacts and create long term solutions? Challenging Times Demand Changing Approaches As the world strives to go green and clean, the discipline of environmental science is poised to take center stage. Its components span many disciplines, subdisciplines, and specialties. Reflecting this, introductory courses are often taught by instructors trained in fields ranging from biology, chemistry, and physics to philosophy and

political science. The next generation of environmental scientists, professionals, and decision makers need an understanding of environmental issues that is not only cohesive, but firmly based in science. They need environmental literacy. Why Another Text on Environmental Science? Exploiting the fertile ground provided by young and open minds, The Environment: Science, Issues, and Solutions employs a back-to-basics, building-block presentation. The authors' approach is strongly grounded in science, the scientific method, and environmental evidence. They introduce the principles of ecology, then discuss how the increase in human population, expanded technology use, and unprecedented economic development and growth has altered ecosystems resulting in serious local, regional, and global environmental problems. The book makes a case for seeking long-term solutions for the prevention and mitigation of environmental problems in their interconnected, interrelated, and, thus, interdependent ways. Fully Integrated Text Rigorously Explores Environmental Issues The authors' engaging style piques the interest of students, challenges their critical abilities, and fosters environmental literacy based on a fundamental understanding of the systems of the natural world. The authors emphasize the basics of ecology and use this foundation to build an understanding of major environmental problems and explore methods of mitigating what has been degraded or destroyed. In a logical progression, they provide an understanding of the science, a delineation of the human population and technological growth that has led to environmental issues, and an exploration of solutions to those problems.

[Power System Dynamics and Stability](#) CRC Press

Accurate modeling of the interaction between convective and diffusive processes is one of the most common challenges in the numerical approximation of partial differential equations. This is partly due to the fact that numerical algorithms, and the techniques used for their analysis, tend to be very different in the two limiting cases of elliptic and hyperbolic equations. Many different ideas and approaches have been proposed in widely differing contexts to resolve the difficulties of exponential fitting, compact differencing, number upwinding, artificial viscosity, streamline diffusion, Petrov-Galerkin and evolution Galerkin being some examples from the main fields of finite difference and finite element methods. The main aim of this volume is to draw together all these ideas and see how they overlap and differ. The reader is provided with a useful and wide ranging source of algorithmic concepts and techniques of analysis. The material presented has been drawn both from theoretically oriented literature on finite differences, finite volume and finite element methods and also from accounts of practical, large-scale computing, particularly in the field of computational fluid dynamics.

[Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks](#) CRC Press

This annual series of books includes scientific papers on mining profiles. This volume presents multiple aspects of mining technology implementation in several aspects: extraction of coal, iron, manganese, uranium and other ores. Capturing and utilization of coalbed methane by various methods including alternative ones, safety measures in mining, ecological aspects, etc. Specific attention is paid to intensification of mineral resources extraction processes by way of modernizing opening methods, development and mining methods depending on mining-geological conditions. Experimental results of stress-strain state rock massif forecast by means of computational experiments using recursive methods are also discussed. Any mining operations should finally result in adequate recovery of land surface and utilization of mining wastes using various environmentally friendly methods, thus, sufficient attention is paid to this scientific trend. Non-traditional methods of minerals mining are becoming more topical and of higher demand in the modern society. Hence, several papers/chapters are devoted to underground coal gasification and its subsequent processes. In addition, extraction technologies of gas hydrate, as a source of an abundant amount of natural gas, are thoroughly examined in this book, including implementation of gas hydrate technologies for mine methane utilizations with its following transportation in a solid state. Furthermore, attention is given to evaluation of economic efficiency of minerals mining by the proposed methods, their ways of enrichment, ecological aspects and the influence of mining production on the environment, innovational logistic solutions at mining enterprises, and also to perspectives of Ukraine's mining industry integration to the European standards.

[Electric Power Distribution Handbook, Second Edition](#) Demos Medical Publishing

For any digital TV developer or manager, the maze of standards and specifications related to MHP and OCAP is daunting-you have to patch together pieces from several standards to gather all the necessary knowledge you need to compete worldwide. The standards themselves can be confusing, and contain many inconsistencies and missing pieces. Interactive TV Standards provides a guide for actually deploying these technologies for a

broadcaster or product and application developer. Understanding what the APIs do is essential for your job, but understanding how the APIs work and how they relate to each other at a deeper level helps you do it better, faster and easier. Learn how to spot when something that looks like a good solution to a problem really isn't. Understand how the many standards that make up MHP fit together, and implement them effectively and quickly. Two DVB insiders teach you which elements of the standards that are needed for digital TV, highlight those elements that are not needed, and explain the special requirements that MHP places on implementations of these standards. Once you've mastered the basics, you will learn how to develop products for US, European, and Asian markets--saving time and money. By detailing how a team can develop products for both the OCAP and MHP markets, Interactive TV Standards teaches you how to leverage your experience with one of these standards into the skills and knowledge needed to work with the critical, related standards. Does the team developing a receiver have all the knowledge they need to succeed, or have they missed important information in an apparently unrelated standard? Does an application developer really know how to write a reliable piece of software that runs on any MHP or OCAP receiver? Does the broadcaster understand the business and technical issues well enough to deploy MHP successfully, or will their project fail? Increase your chances of success the first time with Interactive TV Standards.

[Healthcare Security](#) CRC Press

Threat actors, be they cyber criminals, terrorists, hacktivists or disgruntled employees, are employing sophisticated attack techniques and anti-forensics tools to cover their attacks and breach attempts. As emerging and hybrid technologies continue to influence daily business decisions, the proactive use of cyber forensics to better assess the risks that the exploitation of these technologies pose to enterprise-wide operations is rapidly becoming a strategic business objective. This book moves beyond the typical, technical approach to discussing cyber forensics processes and procedures. Instead, the authors examine how cyber forensics can be applied to identifying, collecting, and examining evidential data from emerging and hybrid technologies, while taking steps to proactively manage the influence and impact, as well as the policy and governance aspects of these technologies and their effect on business operations. A world-class team of cyber forensics researchers, investigators, practitioners and law enforcement professionals have come together to provide the reader with insights and recommendations into the proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data. This book is an essential guide for both the technical and non-technical executive, manager, attorney, auditor, and general practitioner who is seeking an authoritative source on how cyber forensics may be applied to both evidential data collection and to proactively managing today's and tomorrow's emerging and hybrid technologies. The book will also serve as a primary or supplemental text in both under- and post-graduate academic programs addressing information, operational and emerging technologies, cyber forensics, networks, cloud computing and cybersecurity.

[Interactive TV Standards](#) CRC Press

It's no secret that some of the most successful companies, such as 3M, Procter & Gamble, Microsoft, and Mercedes-Benz, are also known for their new product development strategies. Creating and Marketing New Products and Services teaches the key business and marketing principles needed to successfully design and launch new products and services in today's global market. It begins by providing the foundation required to understand the role of new product development in the innovating organization. The book emphasizes marketing research techniques that can help firms identify the voice of the customer and incorporate these findings into their new product development process. It addresses the role of sustainability in innovation, open innovation strategies, and international co-development efforts of new products and services. Explaining how to manage the development and marketing of new products and services, this book will teach you how to: Select a new product strategy that matches the needs of your organization Set up a disciplined process for new product development Define target market opportunities and search out high potential ideas Understand customer needs, structure them, and prioritize the needs to clearly

define the benefits and values that your product will deliver Integrate marketing, engineering, R&D, and production resources to design a high-quality product that satisfies customer needs and delivers value Forecast sales before market launch based on testing of the product and the marketing plan The concepts discussed in the book can help to boost innovation and improve the performance of any type of organization. Some of the concepts presented are generic and others must be modified for each application. Together, they can lead to greater profitability and reduced risk in the new product development activities within your organization.

#### Marketing IT Products and Services Stipes Pub Llc

The urgency for a global standard of excellence for those who protect the networked world has never been greater. (ISC)2 created the information security industry's first and only CBK®, a global compendium of information security topics. Continually updated to incorporate rapidly changing technologies and threats, the CBK continues to serve as the basis for (ISC)2's education and certification programs. Unique and exceptionally thorough, the Official (ISC)2® Guide to the CISSP®CBK®provides a better understanding of the CISSP CBK — a collection of topics relevant to information security professionals around the world. Although the book still contains the ten domains of the CISSP, some of the domain titles have been revised to reflect evolving terminology and changing emphasis in the security professional's day-to-day environment. The ten domains include information security and risk management, access control, cryptography, physical (environmental) security, security architecture and design, business continuity (BCP) and disaster recovery planning (DRP), telecommunications and network security, application security, operations security, legal, regulations, and compliance and investigations. Endorsed by the (ISC)2, this valuable resource follows the newly revised CISSP CBK, providing reliable, current, and thorough information. Moreover, the Official (ISC)2® Guide to the CISSP® CBK® helps information security professionals gain awareness of the requirements of their profession and acquire knowledge validated by the CISSP certification. The book is packaged with a CD that is an invaluable tool for those seeking certification. It includes sample exams that simulate the actual exam, providing the same number and types of questions with the same allotment of time allowed. It even grades the exam, provides correct answers, and identifies areas where more study is needed.

CRC Press

Gold Winner, 2013 Foreword Reviews IndieFab Book of the Year Awards, Family & Relationships Category A practical, accessible, and comprehensive guide to the legal, financial, emotional and daily living challenges of caring for aging parents while raising your own family. If you are caring for an elderly loved one while raising a child, you may feel overwhelmed and unprepared. The Sandwich Generation's Guide to Eldercare, written by three experts with extensive professional and personal experience with eldercare, provides the information and resources you need to make important decisions, balance your responsibilities, and ensure your elders well-being as well as your own. It includes how to: Create a good eldercare plan and the key financial, healthcare, and legal documents you should have executed Choose the right level of care and ease the transition, including how to avoid the most common mistakes people make in this process Find the best ways to help elderly loved ones maintain their independence and dignity Navigate the maze of government agencies and benefits Involve other family members while minimizing tension or conflict Prevent caregiver burnout and deal with the strain on family life, children, and relationships With useful checklists, worksheets, step-by-step action plans, lists of questions to ask, and a robust resources section, you'll have everything you need to care for your family.

*Creating and Marketing New Products and Services* CRC Press

This book offers solutions to all 284 exercises in Advanced R, Second Edition. All the solutions have been carefully documented and made to be as clear and accessible as possible. Working through the exercises and their solutions will give you a deeper understanding of a variety of programming challenges, many of which are relevant to everyday work. This will expand your set of tools on a technical and conceptual level. You will be able to transfer many of the specific programming schemes directly and will discover far more elegant solutions to everyday problems. Features: When R creates copies, and how it affects memory usage and code performance Everything you could ever want to know about functions The differences between calling and exiting handlers How to employ functional programming to solve modular tasks The motivation, mechanics, usage, and limitations of R's highly pragmatic S3 OO system The R6 OO system, which is more like OO programming in other languages The rules that R uses to parse and evaluate expressions How to use metaprogramming to generate HTML or LaTeX with elegant R code How to identify and resolve performance bottlenecks

Distribution Reliability and Power Quality CRC Press

Employee theft amounts to roughly \$36.6 billion retail dollars lost annually, according to a 2008 National Retail Security Survey, and accounts for approximately 42.7 % of all retail losses. Each year organizations spend millions of dollars on theft detection/prevention devices yet still incur losses at the hands of their own employees; begging the question not of how theft occurs, but why. Discussing the concept of the Theft Triangle (opportunity, motivation, and insufficient deterrents), Retail Security and Loss Prevention Solutions investigates motivational factors that contribute to loss and describes philosophies that can change the entire spectrum of employee dishonesty. It cites the revolutionary approach adopted by the New York Subway System, demonstrating that by changing the overall presentation of the business and contending with the factors preceding the crime, the crime itself can be avoided. As the title "Loss Prevention Professional" implies, the intention is to stop the damage before it occurs. To this end, chapters discuss behaviors that precede a loss event, theoretical perspectives and research on employee deviance and motivation, and methods to control employee dishonesty through deterrents as well as ethical infrastructures. Detailing the intricacies of the Loss Prevention Profession and the myriad skills involved such as accounting, forensics, fraud detection, human behavior analysis, and interview/interrogation skills, the authors give advice on how to select the right individuals for the job and how to build a Loss Prevention department. They employ real life case studies and interviews and discuss the problems and solutions for the future of loss prevention as a whole.

Ticket to Work and Work Incentives Improvement Act of 1999 CRC Press

An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

*Intelligent Network Video* CRC Press

Wolfgang Engel's GPU Pro 360 Guide to GPGPU gathers all the cutting-edge information from his previous seven GPU Pro volumes into a convenient single source anthology that covers general purpose GPU. This volume is complete with 19 articles by leading programmers that focus on the techniques that go beyond the normal pixel and triangle scope of GPUs and take advantage of the parallelism of modern graphics processors to accomplish such tasks. GPU Pro 360 Guide to GPGPU is comprised of ready-to-use ideas and efficient procedures that can help solve many computer graphics programming challenges that may arise. Key Features: Presents tips & tricks on real-time rendering of special effects and visualization data on common consumer software platforms such as PCs, video consoles, mobile devices Covers specific challenges involved in creating games on various platforms Explores the latest developments in rapidly evolving field of real-time rendering Takes practical approach that helps graphics programmers solve their daily challenges

Theory of Solutions CRC Press

An avalanche of acronyms, terms-of-art, buzz words, and short-hand phraseology confronts today's busy communications professionals. Now in its 3rd edition, Tech Terms is an invaluable learning tool to help grasp key aspects of the television and video, PC hardware and software markets, multimedia authoring tools, and the exploding wireless Internet and mobile telecomputing worlds. With more than 1000 terms described in four sentences or less, Tech Terms is perfect the perfect desk reference.

The Environment CRC Press

Characterized by lightning quick innovation, abrupt shifts in technology, and shorter lifecycles, the marketing of IT products and services presents a unique set of challenges and often requires IT managers and developers to get involved in the marketing process. Marketing IT Products and Services is written to help busy IT managers and marketing m

*Electric Power Distribution Handbook* CRC Press

Wastewater Treatment by Reverse Osmosis Process provides a one-stop-shop for reverse osmosis (RO), outlining its scope and limitations for the removal of organic compounds from wastewater. This book covers the state-of-the-art on RO processes and describes ten RO process models of different features and complexities. It also covers the advanced model-based techniques for RO process operations, including various rigorous methods for process modelling, simulation, and optimization at the lowest energy cost, as well as advanced tools such as genetic algorithms for achieving the same. • Highlights different

types of physico-chemical and biological wastewater treatment methods including hybrid systems • Provides an overview of membrane processes, focuses on different types of membrane processes for water treatment and explains characteristics of membrane modules • Introduces the importance and challenges of process modelling for simulation, design, and optimization and offers examples across various industries •Describes the concept of different types of genetic algorithms for process optimisation and provides the state-of-the art of the GA method in terms of its application in water desalination and wastewater treatment •Emphasizes economic aspects of RO processes for wastewater treatment With its focus on the challenges posed by an increasing demand for fresh water and the urgent need to recycle wastewater at minimum cost, this work is an invaluable resource for engineers and scientists working within the field of wastewater treatment.

*The Sandwich Generation's Guide to Eldercare* CRC Press

Concern for reliable power supply and energy-efficient system design has led to usage of power electronics-based systems, including efficient electric power conversion and power semiconductor devices. This book provides integration of complete fundamental theory, design, simulation and application of power electronics, and drives covering up-to-date subject components. It contains twenty-one chapters arranged in four sections on power semiconductor devices, basic power electronic converters, advanced power electronics converters, power supplies, electrical drives and advanced applications. Aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals, this book • Includes electrical drives such as DC motor, AC motor, special motor, high performance motor drives, solar, electrical/hybrid vehicle and fuel cell drives • Reviews advances in renewable energy technologies (wind, PV, hybrid power systems) and their integration • Explores topics like distributed generation, microgrid, and wireless power transfer system • Includes simulation examples using MATLAB®/Simulink and over four hundred solved, unsolved and review problems

*Advanced R Solutions* CRC Press

Of the "big three" components of electrical infrastructure, distribution typically gets the least attention. In fact, a thorough, up-to-date treatment of the subject hasn't been published in years, yet deregulation and technical changes have increased the need for better information. Filling this void, the Electric Power Distribution Handbook delivers comprehensive, cutting-edge coverage of the electrical aspects of power distribution systems. The first few chapters of this pragmatic guidebook focus on equipment-oriented information and applications such as choosing transformer connections, sizing and placing capacitors, and setting regulators. The middle portion discusses reliability and power quality, while the end tackles lightning protection, grounding, and safety. The Second Edition of this CHOICE Award winner features: 1 new chapter on overhead line performance and 14 fully revised chapters incorporating updates from several EPRI projects New sections on voltage optimization, arc flash, and contact voltage Full-color illustrations throughout, plus fresh bibliographic references, tables, graphs, methods, and statistics Updates on conductor burndown, fault location, reliability programs, tree contacts, automation, and grounding and personnel protection Access to an author-maintained support website, distributionhandbook.com, with problems sets, resources, and online apps An unparalleled source of tips and solutions for improving performance, the Electric Power Distribution Handbook, Second Edition provides power and utility engineers with the technical information and practical tools they need to understand the applied science of distribution.