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KEY=MANUAL - NATHANIAL HUANG

Simulation of Semiconductor Processes and Devices 2001 SISPAD 01 Springer Science & Business Media This volume contains the Proceedings of the International Conference on Simulation of Semiconductor Devices and Processes, SISPAD 01, held on September 5-7, 2001, in Athens. The conference provided an open forum for the presentation of the latest results and trends in process and device simulation. The trend towards shrinking device dimensions and increasing complexity in process technology demands the continuous development of advanced models describing basic physical phenomena involved. New simulation tools are developed to complete the hierarchy in the Technology Computer Aided Design simulation chain between microscopic and macroscopic approaches. The conference program featured 8 invited papers, 60 papers for oral presentation and 34 papers for poster presentation, selected from a total of 165 abstracts from 30 countries around the world. These papers disclose new and interesting concepts for simulating processes and devices. **Electronic Devices and Circuits** Prentice Hall Electronic Devices And Circuit Theory, 9/e With Cd Pearson Education India Waste Electrical and Electronic Equipment (WEEE) Handbook Elsevier Electrical and electronic waste is a growing problem as volumes are increasing fast. Rapid product innovation and replacement, especially in information and communication technologies (ICT), combined with the migration from analog to digital technologies and to flat-screen televisions and monitors has resulted in some electronic products quickly reaching the end of their life. The EU directive on waste electrical and electronic equipment (WEEE) aims to minimise WEEE by putting organizational and financial responsibility on producers and distributors for collection, treatment, recycling and recovery of WEEE. Therefore all stakeholders need to be well-informed about their WEEE responsibilities and options. While focussing on the EU, this book draws lessons for policy and practice from all over the world. Part one introduces the reader to legislation and initiatives to manage WEEE. Part two discusses technologies for the refurbishment, treatment and recycling of waste electronics. Part three focuses on electronic products that present particular challenges for recyclers. Part four explores sustainable design of electronics and supply chains. Part five discusses national and regional WEEE management schemes and part six looks at corporate WEEE management strategies. With an authoritative collection of chapters from an international team of authors, Waste electrical and electronic equipment (WEEE) handbook is designed to be used as a reference by policy-makers, producers and treatment operators in both the developed and developing world. Draws lessons for waste electrical and electronic equipment (WEEE) policy and practice from around the world Discusses legislation and initiatives to manage WEEE, including global e-waste initiatives, EU legislation relating to electronic waste, and eco-efficiency evaluation of WEEE take-back systems Sections cover technologies for refurbishment, treatment and recycling of waste, sustainable design of electronics and supply chains, national and regional waste management schemes, and corporate WEEE management strategies **Lubrication of Electrical and Mechanical Components in Electric Power Equipment** CRC Press Lubrication of Electrical and Mechanical Components in Electric Power Equipment presents an analysis of multiple applications of lubricants in the power industry for both electrical and mechanical parts. One of the key features of this book includes a look at the use of lubricants for surfaces of electrical and mechanical parts protection from mechanical wear and friction. Also included are examples of degradation due to fretting, as well as corrosion protection when lubricant is a barrier between metallic surfaces and atmospheric pollutants. This book analyzes the effects of chemical composition and consistency (fluids, greases, solid lubricants) and the durability of lubricants in regard to various types of contacts and mechanical parts material, design and load. Focused on the importance of carefully choosing the lubricants to maintain a stable contact resistance; preserve the physical integrity of the contact surface; and extend the useful life of mechanical parts, such as bearings, the author presents an exhaustive list of lubricants manufacturers and products recommended for use in the electrical industry. **Principles of Electronic Materials and Devices** McGraw-Hill Education Principles of Electronic Materials and Devices, Third Edition, is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices, Second Edition. It is designed for a first course on electronic materials given in Materials Science and Engineering, Electrical Engineering, and Physics and Engineering Physics Departments at the undergraduate level. The third edition has numerous revisions that include more beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders. Advanced topics have been collected under Additional Topics, which are not necessary in a short introductory treatment. **Low-Power Electronics Design** CRC Press The power consumption of integrated circuits is one of the most problematic considerations affecting the design of high-performance chips and portable devices. The study of power-saving design methodologies now must also include subjects such as systems on chips, embedded software, and the future of microelectronics. Low-Power Electronics Design covers all major aspects of low-power design of ICs in deep submicron technologies and addresses emerging topics related to future design. This volume explores, in individual chapters written by expert authors, the many low-power techniques born during the past decade. It also discusses the many different domains and disciplines that impact power consumption, including processors, complex circuits, software, CAD tools, and energy sources and management. The authors delve into what many specialists predict about the future by presenting techniques that are promising but are not yet reality. They investigate nanotechnologies, optical circuits, ad hoc networks, e-textiles, as well as human powered sources of energy. Low-Power Electronics Design delivers a complete picture of today's methods for reducing power, and also illustrates the advances in chip design that may be commonplace 10 or 15 years from now. **Certified Nurse Educator (CNE) Review Manual, Third Edition** Springer Publishing Company Print version of the book includes free access to the app (web, iOS, and Android), which offers interactive Q&A review plus the entire text of the print book! Please note the app is included with print purchase only. The third edition of this classic study guide for nurse educators taking the CNE exam continues to be the only concise review book to feature a systematic approach to exam preparation. Presented in both book and e-book format, it is updated throughout and includes a more in-depth focus on distance-learning modes along with new content on global initiatives and interdisciplinary and interprofessional education. A majority of the Q&As have been revised to reflect a stronger integrative and application focus, and 100 new questions have been added throughout the book for a total of 350 questions. Chapter references have been updated to provide opportunity for further study. The third edition is also geared for use by nurse educators in Canada who intend to take the CNE exam. The CNE review, designed for use by both novice and expert nurse educators, incorporates all content areas designated by the National League for Nursing (NLN) as essential knowledge in the field. It is formatted to closely reflect the test blueprint. Valuable features include case studies and critical thinking questions, Evidence-Based Teaching Practice boxes, "Teaching Gems" offering advice from practice experts, review questions at the end of each chapter, and a practice CNE exam with answers and rationales. New to the Third Edition: More in-depth focus on distance-learning modes New content on global initiatives Additional information on interdisciplinary and interprofessional education 100 additional review questions reflecting a higher integrative and application focus CNE app with updated Q&As and rationales available as a separate purchase Key Features: Offers systematic approach to exam preparation Closely reflects the NLN test blueprint Highlights areas designated by the NLN as essential knowledge Includes case studies, critical thinking questions, 350 practice questions with rationales, and practice test Provides Evidence-Based Teaching Practice Boxes and "Teaching Gems" from practice experts Cyber-physical Systems and Digital Twins **Proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation** Springer This book constitutes the proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation (REV), held at the BMS College of Engineering, Bangalore, India on 3-6 February 2019. Today, online technologies are at the core of most fields of engineering, as well as of society as a whole, and are inseparably connected with Internet of Things, cyber-physical systems, collaborative networks and grids, cyber cloud technologies, service architectures, to name but a few. Since it was first held in, 2004, the REV conference has focused on the increasing use of the Internet for engineering tasks and the problems surrounding it. The 2019 conference demonstrated and discussed the fundamentals, applications and experiences in the field of online engineering and virtual instrumentation. It also presented guidelines for university-level courses on these topics, in view of the increasing globalization of education and the demand for teleworking, remote services and collaborative working environments. **Electronics Fundamentals Circuits, Devices, and Applications** Prentice Hall This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals. **The SAGES Manual of Quality, Outcomes and Patient Safety** Springer Nature Model Rules of Professional Conduct American Bar Association The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts. **Smart Solutions in Today's Transport 17th International Conference on Transport Systems Telematics, TST 2017, Katowice - Ustroń, Poland, April 5-8, 2017, Selected Papers** Springer This book constitutes the thoroughly refereed proceedings of the 17th International Conference on Transport Systems Telematics, TST 2017, held in Katowice-Ustroń, Poland, in April 2017. The 40 full papers presented in this volume were carefully reviewed and selected from 128 submissions. They present and organize the knowledge from within the field of intelligent transportation systems, the specific solutions applied in it and their influence on improving efficiency of transport systems. **USENIX Windows NT Workshop Proceedings Skills for Midwifery Practice E-Book** Elsevier Health Sciences The new edition of this highly acclaimed step-by-step guide continues to offer readers with the relevant physiology, evidence-base and rationale for the key midwifery skills. Authored by experienced practitioners and educationalists, Skills for Midwifery Practice 4e will be ideal for all midwifery students, both from within the UK and worldwide. Presents over 150 essential midwifery procedures in an easy-to-read, quick reference format 'Learning Objectives' and 'end-of-chapter' self-assessment exercises allow readers to monitor their progress Refers to the latest evidence and research, including current national and international guidelines Explains the underlying physiology associated with pregnancy and childbirth Over 150 artworks help explain physiological processes and clinical procedures 'Roles and Responsibilities' boxes define the nature and extent of current practice Ideal for use as a basis for teaching and assessment New format - now with colour - makes learning even easier! Explores the use and significance of the Modified Early Obstetric Warning Scoring Chart Discusses advances in equipment usage including the application of sequential compression devices, temporal artery thermometers, and pulse oximetry in the early detection of critical congenital heart disease Contains advances in microbiology and infection control including the application and removal of gloves and the use of ANTT for each relevant procedure Physiology updates include an expanded section on normal and abnormal breathing patterns, the structure of the stratum corneum at birth and the factors that affect its barrier function, and neonatal reflexes present at birth Updated information regarding the use of the automated external defibrillator during maternal resuscitation, and the use of blended air and oxygen and pulse oximetry during neonatal resuscitation Care of the traumatised perineum - including expanded discussion of modern suture materials Recognition and management of complications associated with infusion therapy and

epidural analgesia Lifetime Prediction and Simulation Models of Different Energy Storage Devices [MDPI](#) Energy storage is one of the most important enablers for the transformation to a sustainable energy supply with greater mobility. For vehicles, but also for many stationary applications, the batteries used for energy storage are very flexible but also have a rather limited lifetime compared to other storage principles. This Special Issue is a collection of articles that collectively address the following questions: What are the factors influencing the aging of different energy storage technologies? How can we extend the lifetime of storage systems? How can the aging of an energy storage be detected and predicted? When do we have to exchange the storage device? The articles cover lithium-ion batteries, supercaps, and flywheels. *Low-Power Processors and Systems on Chips* [CRC Press](#) The power consumption of microprocessors is one of the most important challenges of high-performance chips and portable devices. In chapters drawn from Piguet's recently published *Low-Power Electronics Design*, this volume addresses the design of low-power microprocessors in deep submicron technologies. It provides a focused reference for specialists involved in systems-on-chips, from low-power microprocessors to DSP cores, reconfigurable processors, memories, ad-hoc networks, and embedded software. *Low-Power Processors and Systems on Chips* is organized into three broad sections for convenient access. The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels. The second part describes several aspects of low-power systems on chips, including hardware and embedded software aspects, efficient data storage, networks-on-chips, and applications such as routing strategies in wireless RF sensing and actuating devices. The final section discusses embedded software issues, including details on compilers, retargetable compilers, and coverification tools. Providing detailed examinations contributed by leading experts, *Low-Power Processors and Systems on Chips* supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs. It is a must-read for anyone designing modern computers or embedded systems. *Electronic Government 6th International Conference, EGOV 2007, Regensburg, Germany, September 3-7, 2007, Proceedings* [Springer Science & Business Media](#) This book constitutes the refereed proceedings of the 6th International Conference on Electronic Government held in September 2007. The 37 revised papers were selected from numerous submissions. They cover research foundations, frameworks and methods, process design and interoperability, electronic services, policies and strategies, assessment and evaluation, participation and democracy, and perspectives on e-government. *Electronic Waste Management* [Royal Society of Chemistry](#) The book deals with the full range of waste management issues, including recycling and recovery of materials and design considerations for waste minimisation. In addition, the book also contains a wide variety of illustrative case studies. With detailed and comprehensive coverage of the subject matter, an extensive bibliography is provided with each chapter. *Electronic Waste Management* is essential reading for all involved with electrical and electronic waste management through its comprehensive review of recent EU legislation and the subsequent impact on manufacturers and users of electronic equipment. *Electronic Waste Management* [Royal Society of Chemistry](#) Electronic waste, which includes everything from refrigerators to smartphones, is one of the world's fastest growing waste streams. Often these items are simply discarded as new technology becomes available. A huge amount of electronic waste is generated globally and currently only around 20% of it is recycled. The complex mixture of materials and components within electronic waste makes it difficult to manage and many of these components can pose hazards to human health or the environment if not disposed of carefully. There have been significant changes in the global approach to electronic waste management and the legislation around it since the publication of the first edition of *Electronic Waste Management*. This new edition provides an updated overview across the world as well as presenting new chapters on current issues in recycling and management of this waste. This is an essential reference not only for those working in recycling and waste management, but also for those working in manufacturing and product development who wish to consider the full lifecycle of their products. It also provides valuable insights for policymakers developing more environmentally sound and sustainable systems and strategies for the management of electronic waste. *Substrate Noise Coupling in RFICs* [Springer Science & Business Media](#) The book reports modeling and simulation techniques for substrate noise coupling effects in RFICs and introduces isolation structures and design guides to mitigate such effects with the ultimate goal of enhancing the yield of RF and mixed signal SoCs. The book further reports silicon measurements, and new test and noise isolation structures. To the authors' knowledge, this is the first title devoted to the topic of substrate noise coupling in RFICs as part of a large SoC. *Transmission, Distribution, and Renewable Energy Generation Power Equipment Aging and Life Extension Techniques, Second Edition* [CRC Press](#) The revised edition presents, extends, and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made. New sections in the second edition summarize the issues of the aging, reliability, and safety of electrical apparatus, as well as supporting equipment in the field of generating renewable energy (solar, wind, tide, and wave power). When exposed to atmospheric corrosive gases and fluids, contaminants, high and low temperatures, vibrations, and other internal and external impacts, these systems deteriorate; eventually the ability of the apparatus to function properly is destroyed. In the modern world of "green energy", the equipment providing clean, electrical energy needs to be properly maintained in order to prevent premature failure. The book's purpose is to help find the proper ways to slow down the aging of electrical apparatus, improve its performance, and extend the life of power generation, transmission, and distribution equipment. *Robotic Grasping and Manipulation First Robotic Grasping and Manipulation Challenge, RGMC 2016, Held in Conjunction with IROS 2016, Daejeon, South Korea, October 10-12, 2016, Revised Papers* [Springer](#) This book constitutes the refereed proceedings of the First Robotic Grasping and Manipulation Challenge, RGMC 2016, held at IROS 2016, Daejeon, South Korea, in October 2016. The 13 revised full papers presented were carefully reviewed and are describing the rules, results, competitor systems and future directions of the inaugural competition. The competition was designed to allow researchers focused on the application of robot systems to compare the performance of hand designs as well as autonomous grasping and manipulation solutions across a common set of tasks. The competition was comprised of three tracks that included hand-in-hand grasping, fully autonomous grasping, and simulation. *Microfabricated Power Generation Devices Design and Technology* [John Wiley & Sons](#) Focusing on a description of the technologies and methodologies for computer-aided conceptual design, this book covers the design, modeling and simulation of micropower generation devices. The articles are authored by internationally recognized experts in the field, who take the reader from fundamentals and design aspects to numerous power generation strategies and system engineering. The comprehensive coverage also extends to fuel processing, energy conversion, material and heat management, device operation, economics and quality control. For materials scientists, chemists, physicists, process engineers and those in power technology. *Fundamentals of Microelectronics* [John Wiley & Sons](#) *Fundamentals of Microelectronics, 2nd Edition* is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The book's unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success. *Data Mining: Concepts and Techniques* [Elsevier](#) *Data Mining: Concepts and Techniques* provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects *Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields* Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data *Lippincott Nursing Procedures* [Lippincott Williams & Wilkins](#) Confidently provide best practices in patient care, with the newly updated *Lippincott® Nursing Procedures, 9th Edition*. More than 400 entries offer detailed, evidence-based guidance on procedures ranging from the most basic patient care to assisting with intricate surgeries. The alphabetical organization allows you to quickly look up any procedure by name, and benefit from the clear, concise, step-by-step direction of nursing experts. Whether you're a nursing student, are new to nursing, or are a seasoned practitioner, this is your go-to guide to the latest in expert care and positive outcomes. *Executing Design for Reliability Within the Product Life Cycle* [CRC Press](#) At an early stage of the development, the design teams should ask questions such as, "How reliable will my product be?" "How reliable should my product be?" And, "How frequently does the product need to be repaired / maintained?" To answer these questions, the design team needs to develop an understanding of how and why their products fail; then, make only those changes to improve reliability while remaining within cost budget. The body of available literature may be separated into three distinct categories: "theory" of reliability and its associated calculations; reliability analysis of test or field data - provided the data is well behaved; and, finally, establishing and managing organizational reliability activities. The problem remains that when design engineers face the question of design for reliability, they are often at a loss. What is missing in the reliability literature is a set of practical steps without the need to turn to heavy statistics. *Executing Design for Reliability Within the Product Life Cycle* provides a basic approach to conducting reliability-related streamlined engineering activities, balancing analysis with a high-level view of reliability within product design and development. This approach empowers design engineers with a practical understanding of reliability and its role in the design process, and helps design team members assigned to reliability roles and responsibilities to understand how to deploy and utilize reliability tools. The authors draw on their experience to show how these tools and processes are integrated within the design and development cycle to assure reliability, and also to verify and demonstrate this reliability to colleagues and customers. *The Royal Marsden Manual of Clinical Nursing Procedures* [John Wiley & Sons](#) The *Royal Marsden Manual of Clinical Nursing Procedures* has been the number one choice for nurses since it first published, over 30 years ago. One of the world's most popular books on clinical skills and procedures, it provides detailed procedure guidelines based on the latest research findings and expert clinical advice, enabling nurses and students to deliver clinically effective patient-focused care. The ninth edition of this essential, definitive guide, written especially for pre-registration nursing students, now includes a range of new learning features throughout each chapter that have been designed to support student nurses to support learning in clinical practice. Providing essential information on over 200 procedures, this manual contains all the skills and changes in practice that reflect modern acute nursing care. *Secure Smart Embedded Devices, Platforms and Applications* [Springer Science & Business Media](#) New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services. As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life. *Secure Smart Embedded Devices, Platforms and Applications* provides a broad overview of the many security and practical issues of embedded devices, tokens, and their operation systems, platforms and main applications. It also addresses a diverse range of industry/government initiatives and considerations, while focusing strongly on technical and practical security issues. The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented. A sufficient level of technical detail to support embedded systems is provided throughout the text, although the book is quite readable for those seeking awareness through an initial overview of the topics. This edited volume benefits from the contributions of industry and academic experts and helps provide a cross-discipline overview of the security and practical issues for embedded systems, tokens, and platforms. It is an ideal complement to the earlier work, *Smart Cards Tokens, Security and Applications* from the same editors. *Advances in The Human Side of Service Engineering Proceedings of the AHFE 2016 International Conference on The Human Side of Service Engineering, July 27-31, 2016, Walt Disney World®, Florida, USA* [Springer](#) This book explores the different ways in which human-factors engineering influences organizations' and enterprises' well-being and competitiveness. It covers a wealth of interrelated topics such as service engineering, service science, human-computer interaction, service usability, attitude and opinion assessment, servicescape design and evaluation, and training for service delivery. Further topics include service systems modeling, anthropology in service science, and customer experience, as well as ethical issues and the impact of an aging society. Based on

the AHFE 2016 International Conference on The Human Side of Service Engineering, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, the book provides readers with a comprehensive, general view of current research and challenges in the important field of service engineering. It also provides practical insights into the development of services for different kinds of organizations, including health care organizations, aviation providers, manpower allocation, hospitality and entertainment, as well as banking and financial institutions. Searching and Seizing Computers and Obtaining Electronic Evidence in Criminal Investigations The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition [John Wiley & Sons](#) The student edition of The Royal Marsden Manual of Clinical Nursing Procedures has been the definitive, market-leading textbook of clinical nursing skills for fifteen years. This internationally best-selling title sets the gold standard for nursing care, providing the procedures, rationale, and guidance required by pre-registration students to deliver clinically effective, patient-focused care with expertise and confidence. With over two-hundred detailed procedures which reflect the skills required to meet The Standards of Proficiency for Registered Nurses (NMC 2019), this comprehensive manual presents the evidence and underlying theory alongside full-colour illustrations and a range of learning activities designed to support student nurses in clinical practice. Loved and trusted by millions, The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition continues to be a truly indispensable textbook for students, and includes coverage of patient assessment and discharge planning, communication, infection prevention and control, perioperative care, wound management, nutrition, diagnostic testing, medicines management, and much more. Learning features in this revised tenth edition include: Learning outcomes - summarise the focus of the information in each chapter Learning in practice - asks you to consider issues within your practice environment Case studies - provide learning around a particular patient scenario Clinical applications - ask you to consider how you would apply your knowledge to a clinical situation Stretch activities - challenge you with more nuanced, advanced issues to reflect upon Many of the features in the book are relevant to trainee nursing associates, especially when used in conjunction with supervision from academic and clinical teachers. A companion website to this title is available at www.royalmarsdenmanual.com/student10e Computer Networking A Top-Down Approach [Addison-Wesley Longman](#) Computer Networking provides a top-down approach to this study by beginning with applications-level protocols and then working down the protocol stack. Focuses on a specific motivating example of a network-the Internet-as well as introducing students to protocols in a more theoretical context. New short "interlude" on "putting it all together" that follows the coverage of application, transport, network, and datalink layers ties together the various components of the Internet architecture and identifying aspects of the architecture that have made the Internet so successful. A new chapter covers wireless and mobile networking, including in-depth coverage of Wi-Fi, Mobile IP and GSM. Also included is expanded coverage on BGP, wireless security and DNS. This book is designed for readers who need to learn the fundamentals of computer networking. It also has extensive material, on the very latest technology, making it of great interest to networking professionals. Solid State Electronic Devices "This is the fifth edition of the most widely used introductory book on semiconductor materials, physics, devices and technology. The book was written with two basic goals in mind: 1) develop the basic semiconductor physics concepts to understand current and future devices; 2) provide a sound understanding of current semiconductor devices and technology so that their applications to electronic and optoelectronic circuits and systems can be appreciated."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved Offshore Oil & Gas Rigs JOB INTERVIEW [Petrogav International](#) The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 272 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. Compact Modeling Principles, Techniques and Applications [Springer Science & Business Media](#) Most of the recent texts on compact modeling are limited to a particular class of semiconductor devices and do not provide comprehensive coverage of the field. Having a single comprehensive reference for the compact models of most commonly used semiconductor devices (both active and passive) represents a significant advantage for the reader. Indeed, several kinds of semiconductor devices are routinely encountered in a single IC design or in a single modeling support group. Compact Modeling includes mostly the material that after several years of IC design applications has been found both theoretically sound and practically significant. Assigning the individual chapters to the groups responsible for the definitive work on the subject assures the highest possible degree of expertise on each of the covered models. Mechanical Design and Manufacturing of Electric Motors [CRC Press](#) This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in-depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption, and emphasis on environmental protection, alongside new technology in 3D printing, robots, nanotechnology, and digital techniques, and the challenges these pose to the motor industry. From motor classification and design of motor components to model setup and material and bearing selections, this comprehensive text covers the fundamentals of practical design and design-related issues, modeling and simulation, engineering analysis, manufacturing processes, testing procedures, and performance characteristics of electric motors today. This Second Edition adds three brand new chapters on motor breaks, motor sensors, and power transmission and gearing systems. Using a practical approach, with a focus on innovative design and applications, the book contains a thorough discussion of major components and subsystems, such as rotors, shafts, stators, and frames, alongside various cooling techniques, including natural and forced air, direct- and indirect-liquid, phase change, and other newly-emerged innovative cooling methods. It also analyzes the calculation of motor power losses, motor vibration, and acoustic noise issues, and presents engineering analysis methods and case-study results. While suitable for motor engineers, designers, manufacturers, and end users, the book will also be of interest to maintenance personnel, undergraduate and graduate students, and academic researchers. GB/T-2021, GB-2021 -- Chinese National Standard PDF-English, Catalog (year 2021) Chinese National Standard: GB Series of year 2021 <https://www.chinesestandard.net> This document provides the comprehensive list of Chinese National Standards - Category: GB, GB/T Series of year 2021. Potter and Perry's Fundamentals of Nursing: Second South Asia Edition - E-Book [Elsevier India](#) Fundamentals of Nursing by Potter and Perry is a widely appreciated textbook on nursing foundations/fundamentals. Its comprehensive coverage provides fundamental nursing concepts, skills and techniques of nursing practice and a firm foundation for more advanced areas of study. This Second South Asia edition of Potter and Perry's Fundamentals of Nursing not only provides the well-established, authentic content of international standards but also caters to the specific curriculum requirements of nursing students of the region. SALIENT FEATURES Fully compliant to the INC curriculum Easy-to-read, interesting and involving disposition, which leads the reader through various facets of nursing foundations/ fundamentals Improved layout, design and presentation A number of photographs replaced with the Indian ones to provide regional feel to the content Long Answer and Short Answer questions added at the end of every chapter