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Watkins' Manual of Foot and Ankle Medicine and Surgery McGraw Hill Professional

THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century, the Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers. It offers comprehensive information on the generation, transmission, distribution, control, operation, and application of electric power. Completely revised throughout to address the latest codes and standards, the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids, smart meters, renewable energy, and cogeneration plants. Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed. Featuring hundreds of detailed illustrations and contributions from more than 75 global experts, this state-of-the-art volume is an essential tool for every electrical engineer. Standard Handbook for Electrical Engineers, 16th Edition, covers: Units, symbols, constants, definitions, and conversion factors * Electric and magnetic circuits * Measurements and instruments * Properties of materials * Generation * Prime movers * Alternating-current generators * Direct-current generators * Hydroelectric power generation * Power system components * Alternate sources of power * Electric power system economics * Project economics * Transmission systems * High-voltage direct-current power transmission * Power system operations * Substations * Power distribution * Wiring design for commercial and industrial buildings * Motors and drives * Industrial and commercial applications of electric power * Power electronics * Power quality and reliability * Grounding systems * Computer applications in the electric power industry * Illumination * Lightning and overvoltage protection * Standards in electrotechnology, telecommunications, and information technology

Pressure Vessel Handbook Elsevier

Ideal for podiatry residents, students, and practitioners, Watkins ’ Manual of Foot and Ankle Medicine and Surgery, Fifth Edition, provides fast access to must-know clinical information on anatomy, pharmacology, microbiology, disease prevention, and management of foot and ankle disorders. Author and illustrator, Dr. Leon Watkins, offers concise yet comprehensive coverage of everything you need to know—from arthritis, imaging, and wound care to implants, pediatrics, and trauma, all in an easy-to-digest list format that makes study, review, and reference quick and easy.

The SAGES Manual of Biliary Surgery John Wiley & Sons

Asustek has introduced a single line of ultra-portable computers that could surpass all of Apple's Macintosh sales. Of that total, about 1.6 million units will be equipped not with

Windows, but Xandros Linux. The Eee is designed to open up new market segments: In the U.S and other developed nations, it will be targeted largely at school students. Equipped with both "learning" programs as well as office and internet applications, the Eee will provide everything that students need regardless of their grade level. Because it is an ultra-light, highly mobile, yet fully capable computer, it will also appeal to business users and first-time computer buyers. This book will cover everything, from turning the machine on and connecting it to the internet, to how to upgrade, update, and generally get the most from these tiny computers.

Ant Colony Optimization Pearson Education India

"Microelectronic Circuit Design" is known for being a technically excellent text. The new edition has been revised to make the material more motivating and accessible to students while retaining a student-friendly approach. Jaeger has added more pedagogy and an emphasais on design through the use of design examples and design notes. Some pedagogical elements include chapter opening vignettes, chapter objectives, "Electronics in Action" boxes, a problem solving methodology, and "design note" boxes. The number of examples, including new design examples, has been increased, giving students more opportunity to see problems worked out. Additionally, some of the less fundamental mathematical material has been moved to the ARIS website. In addition this edition comes with a Homework Management System called ARIS, which includes 450 static problems.

Government Reports Annual Index McGraw-Hill Science, Engineering & Mathematics

This new edition of Norbert Tietz's classic handbook presents information on common tests as well as rare and highly specialized tests and procedures - including a summary of the utility and merit of each test. Biological variables that may affect test results are discussed, and a focus is placed on reference ranges, diagnostic information, clinical interpretation of laboratory data, interferences, and specimen types. New and updated content has been added in all areas, with over 100 new tests added. Tests are divided into 8 main sections and arranged alphabetically. Each test includes necessary information such as test name (or disorder) and method, specimens and special requirements, reference ranges, chemical interferences and in vivo effects, kinetic values, diagnostic information, factors influencing drug disposition, and clinical comments and remarks. The most current and relevant tests are included; outdated tests have been eliminated. Test index (with extensive cross references) and disease index provide the reader with an easy way to find necessary information Four new sections in key areas (Preatalytical, Flow Cytometry, Pharmacogenomics, and Allergy) make this edition current and useful. New editor Alan Wu, who specializes in Clinical Chemistry and Toxicology, brings a wealth of experience and expertise to this edition. The Molecular Diagnostics section has been greatly expanded due to the increased prevalence of new molecular techniques being used in laboratories. References are now found after each test, rather than at the end of each section, for easier access.

Whitaker's Books in Print Springer Nature

Signal Processing for Neuroscientists introduces analysis techniques primarily aimed at neuroscientists and biomedical engineering students with a reasonable but modest background in mathematics, physics, and computer programming. The focus of this text is on what can be considered the ‘golden trio’ in the signal processing field: averaging, Fourier analysis, and filtering. Techniques such as convolution, correlation, coherence, and wavelet analysis are considered in the context of time and frequency domain analysis. The whole spectrum of signal analysis is covered, ranging from data acquisition to data processing; and from the mathematical background of the analysis to the practical application of processing algorithms. Overall, the approach to the mathematics is informal with a focus on basic understanding of the methods and their interrelationships rather than detailed proofs or derivations. One of the principle goals is to provide the reader with the background required to understand the principles of commercially available analyses software, and to allow him/her to construct his/her own analysis tools in an environment such as MATLAB®. Multiple color illustrations are integrated in the text Includes an introduction to biomedical signals, noise characteristics, and recording techniques Basics and background for more advanced topics can be found in extensive notes and appendices A Companion Website hosts the MATLAB scripts and several data files: <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123708670>

An Introduction to Applied Multivariate Analysis with R McGraw Hill Professional

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

Semiconductor Physics and Devices MIT Press

The acclaimed Calculus: Concepts and Applications is now available in a new edition, revised to reflect important changes in the Advanced Placement curriculum, and updated to incorporate feedback from instructors throughout the U.S.With over 40 years of experience teaching AP

Calculus, Paul Foerster developed Calculus: Concepts and Applications with the high school student in mind, but with all the content of a college-level course. Like the previous edition, the second edition follows the AP Calculus curriculum for both AB and BC levels.In Calculus: Concepts and Applications, students start off with calculus! Review of precalculus occurs at various points when it's needed. The text combines graphing-calculator technology with a unique, real-world application approach, and presents calculus as a study of just four fundamental concepts: limits, derivatives, definite integrals, and indefinite integrals. Students learn these concepts using algebraic, numerical, graphical, and verbal approaches. As a result, students with a wider range of abilities can be successful in calculus, not just those who are strong in algebra. The accompanying set of Explorations in the Instructor's Resource Book, designed for cooperative group work, gives students hands-on experience with new topics before they are formally introduced.In this new edition, derivatives of transcendental functions, related rates, as well as area and volume applications of the definite integral are introduced earlier. Additionally, the Instructor's Resource Book includes projects utilizing the CBLâ,,ç, The Geometer's Sketchpad ®, and Fathom Dynamic Statisticsâ,,ç software, giving students extended opportunities to explore and understand calculus in depth.

Power System Dynamics and Stability Elsevier

Although benign biliary disease is an area in which many surgeons have experience, there are many nuances to providing the highest quality of surgical care. The biliary anatomy is unique but presents with anatomical variances and can be distorted by benign pathology. Biliary surgery has been one of the areas where minimally invasive techniques were first applied in the late 1980s. However, surgical technique has continued to evolve due to acquisition of advanced minimal surgical skills and improvement in surgical technology. The expertise, sage, and knowledge of the members of the Society of American Gastrointestinal and Endoscopic Surgery (SAGES) have prioritized the creation of this manual on modern biliary surgery. This manual will provide the standard for the current state of biliary surgery in the 21st century. The SAGES Manual of Biliary Surgery will align with the new SAGES University Masters program. The Manual supplements the Masters Program Biliary Surgery Pathway. Its goal is to help the surgeon progress from the competent to the proficient and finally to the mastery level. Both for the surgical trainee and senior surgeon, this guidebook will also give insight into modern evaluation and management. The highlights will emphasize what is both feasible and safe from a minimally invasive approach in biliary surgery. The concept of Safe Cholecystectomy will be defined and expounded on in detail. The difficult cholecystectomy will be given ample coverage to include management of intraoperative bile duct injury, indications and techniques of subtotal cholecystectomy, and special attention to intraoperative diagnostic imaging that serve as adjuncts, including cholangiography, ultrasound, as well as indocyanine green biliary fluorescence. We will review the updated international Tokyo guidelines for acute cholecystitis. Furthermore, the evolution of treatment of choledocohlithiasis has evolved the most in recent years, and thus requires an extensive discussion of the non-operative and operative management of bile duct stones. This text will serve as an important contribution to the medical literature sponsored by SAGES, an international leading authority in gastrointestinal surgery with a keen interest in safe and proficient biliary surgery. Leaders in the field of biliary surgery will impart their insight and considerable experience in the chapters planned for this manual. The intent for this manual is to be the cited resource for high quality and applicable knowledge for the treatment of benign biliary disease.

Calculus Elsevier Health Sciences

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Microelectronic Circuit Design Springer

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it’s practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Using the Asus Eee PC Springer Science & Business Media

This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems’ major concepts, theories, methodologies, trends, and

challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

Behavior & Society Que Publishing

In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be regarded as the sources of this radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess' discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly, the field of particle physics that was initiated by the discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics, now under the name of astroparticle physics. Secondly, an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research that is concerned with the origin, acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics, astronomy and cosmology. Presently very popular fields of research have rapidly evolved, such as high-energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of it ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the Earth's atmosphere, at sea level and underground. Included are predominantly experimental but also theoretical data. In addition the book contains related data, definitions and important relations. The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches.

Commerce Business Daily Elsevier India

What can you do with your Eee PC? Find out how to get the most from this mini-laptop with Asus Eee PC For Dummies. It shows you how to get things done—using the Linux operating system and applications, navigating the tabbed desktop, adding hardware and software, backing up and restoring the Eee PC, and more. You’ll learn how to set up Windows, take advantage of all the pre-installed software, ensure that your computer is secure, and even run your Eee PC on solar power. You’ll find tips for configuring printers and changing touchpad settings, techniques for making Skype phone calls and listening to Internet radio, and advice for adding storage and peripherals. It also helps you: Take full advantage of this exciting, ultra-portable “netbook” PC Set up your wireless connection Make free Skype phone calls and video calls Use OpenOffice.org, Thunderbird e-mail, Mozilla Firefox, and other included applications Use the versatile OpenOffice productivity suite, including Writer for word processing, Calc for spreadsheets, and Impress for presentations Compare the advantages of Windows vs. Linux Discover the science, language, math, and art functions that kids can enjoy on the Eee Enjoy built-in games, watch videos, play music, organize and view photos, and more Boost storage and memory with SD cards and USB drives, go Bluetooth, and add a GPS Get the scoop on backups, explore the advanced desktop, and customize the user interface The Eee PC makes it simple to surf the Web, play games, work, and more. Asus Eee PC For Dummies makes it easier!

Tietz Clinical Guide to Laboratory Tests - E-Book Pearson Education

For a one-semester senior or beginning graduate level course in power system dynamics. This text begins with the fundamental laws for basic devices and systems in a mathematical modeling context. It includes systematic derivations of standard synchronous machine models with their fundamental controls. These individual models are interconnected for system analysis and simulation. Singular perturbation is used to derive and explain reduced-order models.

Whitaker's Book List

An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers, graduate students, and practitioners who wish to learn how to implement ACO algorithms.

Power Quality Primer

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. A real-world business book for the explosion of eBay entrepreneurs! Absolute Beginner's Guide to Launching an eBay Business guides you step-by-step through the process of setting up an eBay business, and offers real-world advice on how to run that business on a day-to-day basis and maximize financial success. This book covers determining what kind of business to run, writing an action-oriented business plan, establishing an effective accounting system, setting up a home office, obtaining starting inventory, arranging initial funding, establishing an eBay presence, and arranging for automated post-auction management.

Library & Information Sciences

Make power deregulation work for you With deregulation, the vast pool of power customers is up for grabs. As a utility, are you ready to compete? As a customer, are you ready to choose? In Power Quality Primer, Barry Kennedy gives you specifically designed, ahead-of-the-curve methods. Utilities will learn how to: Plan successful competitive strategies for every aspect of the business Market proactive solutions to customers before needs arise Improve transmission and distribution system quality, efficiency, and power factor performance Eliminate technical problems such as over-voltages and poor grounding Design and deliver effective simulations Build customer-winning, customer-keeping quality, quality control, and service into all facets of your enterprise As a customer, you’ll learn how to pick the utility that meets your power quality needs...solve your own power quality problems and find cost-effective solutions...and perform your own power quality survey

Popular Photography

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Administration & Management

The majority of data sets collected by researchers in all disciplines are multivariate, meaning that several measurements, observations, or recordings are taken on each of the units in the data set. These units might be human subjects, archaeological artifacts, countries, or a vast variety of other things. In a few cases, it may be sensible to isolate each variable and study it separately, but in most instances all the variables need to be examined simultaneously in order to fully grasp the structure and key features of the data. For this purpose, one or another method of multivariate analysis might be helpful, and it is with such methods that this book is largely concerned. Multivariate analysis includes methods both for describing and exploring such data and for making formal inferences about them. The aim of all the techniques is, in general sense, to display or extract the signal in the data in the presence of noise and to find out what the data show us in the midst of their apparent chaos. An Introduction to Applied Multivariate Analysis with R explores the correct application of these methods so as to extract as much information as possible from the data at hand, particularly as some type of graphical representation, via the R software. Throughout the book, the authors give many examples of R code used to apply the multivariate techniques to multivariate data.