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For citizen/patient-related information, it is necessary to use the latest medical and care compunetics. This publication covers aspects concerning information supply to patient and professional; electronic health records, its standards, its social implications; and developments in medical and care compunetics. Based on the experience gained by PET/CT experts with more than 10,000 patients, this manual impressively demonstrates the advantages of combined PET/CT. It also refers to publications from Europe, the USA and Asia as well as numerous studies. Provides current information (last updated in 1996) on neuroanatomy, neurophysiology, and neuropharmacology for both practitioners and students. Case studies and follow-ups, as well as numerous MRIs clarify the material covered in the text. Annotation copyrighted by Book News, Inc., Portland, OR "The Mutual Fund Industry Handbook is a remarkably important work . . . I am profoundly impressed by the broad and comprehensive sweep of information and knowledge that this book makes available to industry participants, college and business school students, and anyone else with a serious interest in this industry." -- From the Foreword by John C. Bogle President, Bogle Financial Markets Research Center Founder and former chief executive, The Vanguard Group A Foreword by John C. Bogle, founder of The Vanguard Group and one of the most respected leaders in the mutual fund industry, sets the stage for this authoritative book that explains the complexities of the phenomenal industry in simple terms. Investors like the fact that mutual funds offer professional management, easy diversification, liquidity, convenience, a wide range of investment choices, and regulatory protection. Mutual Fund Industry Handbook touches on all of those features and focuses on the diverse functions performed in the day-to-day operations of the mutual fund industry. You'll learn about: Front-office functions-analysis, buying, and selling. Back-office functions, including settlement, custody, accounting, and reporting. Commission structures-front-end loads, back-end loads, or level loads. The various fund categories used by the Investment Company Institute, Morningstar, and Lipper. The roles played by fund managers, investment advisors, custodial banks, distributors, transfer agents, and other third-party service providers. If you want a definitive reference on the mutual fund industry, this is the book for you. Concise, fast-paced, intensive introduction to clinical research design for students and clinical research professionals Readers will gain sufficient knowledge to pass the United States Medical Licensing Examination part I section in Epidemiology An introductory perspective on statistical applications in the field of engineering Modern Engineering Statistics presents state-of-the-art statistical methodology germane to engineering applications. With a nice blend of methodology and applications, this book provides and carefully explains the concepts necessary for students to fully grasp and appreciate contemporary statistical techniques in the context of engineering. With almost thirty years of teaching experience, many of which were spent teaching engineering statistics courses, the author has successfully developed a book that displays modern statistical techniques and provides effective tools for student use. This book features: Examples demonstrating the use of statistical thinking and methodology for practicing engineers A large number of chapter exercises that provide the opportunity for readers to solve engineering-related problems, often using real data sets Clear illustrations of the relationship between hypothesis tests and confidence intervals Extensive use of Minitab and JMP to illustrate statistical analyses The book is written in an engaging style that interconnects and builds on discussions, examples, and methods as readers progress from chapter to chapter. The assumptions on which the methodology is based are stated and tested in applications. Each chapter concludes with a summary highlighting the key points that are needed in order to advance in the text, as well as a list of references for further reading. Certain chapters that contain more than a few methods also provide end-of-chapter guidelines on the proper selection and use of those methods. Bridging the gap between statistics education and real-world applications, Modern Engineering Statistics is ideal for either a one- or two-semester course in engineering statistics. "This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems"-- This is the book for everyone seeking board certification and recertification in neurology. Written to assist candidates prepare for Part Two - the Oral Exam, Neurology Study Guide: Oral Board Examination Review is the only book of its kind designed specifically for neurologists. Topics ranging from live patient examination to stroke, headache, Parkinson's disease, head trauma, sleep disorders and other conditions will be presented as adult and pediatric vignettes. Also included are special sections on references and review materials and proper exam etiquette. Whether you are a resident seeking certification for the first time, retaking the exam or are a practicing physician preparing for recertification, the Neurology Study Guide is an indispensable tool. Real-life cases provide the context for the critical thinking and problem-solving needed to reinforce the advanced features of Microsoft Access 2002, including two new additional advanced Access projects. This book describes the state-of-the-art in ontology-driven information systems (ODIS) and gives a complete perspective on the problems, solutions and open research questions in this field. The book covers four broad areas: foundations of ODIS, ontological engineering, ODIS architectures, and ODIS applications. It will trigger innovative thought processes and open up significant new domains in ODIS research. A comprehensive shopping guide and restaurant section covering everything from Irish Stew to the best French cuisine highlight this guide to the beautiful city on the Emerald Isle. THE FREEHOF INSTITUTE OF PROGRESSIVE HALAKHAH The Freehof Institute of Progressive Halakhah is a creative research center devoted to studying and defining the progressive character of the halakhah in accordance with the principles and theology of Reform Judaism. It seeks to establish the ideological basis of Progressive halakhah, and its application to daily life. The Institute fosters serious studies, and helps scholars in various portions of the world to work together for a common cause. It provides an ongoing forum through symposia, and publications including the quarterly newsletter, HalakhaH, published under the editorship of Walter Jacob, in the United States. The foremost halakhic scholars in the Reform, Liberal, and Progressive rabbinate along with some Conservative and Orthodox colleagues as well as university professors serve on our Academic Council. Measuring Technology and Mechatronics Automation in Electrical Engineering includes select presentations on measuring technology and mechatronics automation related to electrical engineering, originally presented during the International Conference on Measuring Technology and Mechatronics Automation (ICMTMA2012). This Fourth ICMTMA, held at Sanya, China, offered a prestigious, international forum for scientists, engineers, and educators to present the state of the art of measuring technology and mechatronics automation research. Interest in brain connectivity inference has become ubiquitous and is now increasingly adopted in experimental investigations of clinical, behavioral, and experimental neurosciences. Methods in Brain Connectivity Inference through Multivariate Time Series Analysis gathers the contributions of leading international authors who discuss different time "It's your grade, your age, your challenge! Now smarter and more fun than ever -- and updated to align with the latest common core state standards -- Brain Quest ... quizzes you on the stuff you need to know, when you need to know it"--Container. Once hailed as a radical breakthrough in documentary and ethnographic filmmaking, observational cinema has been criticized for a supposedly detached camera that objectifies and dehumanizes the subjects of its gaze. The author's provide a critical history and in-depth appraisal of this movement. The Definitive Guide to Membrane Bioreactors for Wastewater Treatment This Water Environment Federation resource presents best practices for the use of membrane bioreactors for wastewater treatment. The book begins with an overview of membrane and biological process fundamentals, followed by coverage of membrane bioreactor system integrated process design. The physical design of features unique to membrane bioreactors and the procurement of membrane equipment are discussed. This authoritative manual also covers the operation of properly designed membrane bioreactor facilities. Membrane Bioreactors covers: Membrane bioreactor capabilities Membrane fundamentals Biological process fundamentals Membrane bioreactor process design Membrane bioreactor facility design Membrane bioreactor membrane equipment procurement Membrane bioreactor operation The PC 97 initiative is the next-generation hardware standard for consumer computing from Microsoft. This guide offers a unique and comprehensive look at this emerging standard. The book and CD provide hardware engineers and device driver developers with the authoritative information they need. Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature. This volume covers the main sectors of dairy technology, their basic science and manufacture, their mechanisation and automation, and their quality control. Like any major and highly developed sector of food manufacturing, the dairy foods industry is now highly mechanised, from raw material production through to processing and product manufacture. This book has been written to show the extent and advantages of mechanisation across the range of dairy technology, and to explain the principles and rationale of introducing automated systems. In this way, authors demonstrate how combinations of state-of-the-art machinery and dedicated control systems bring to the dairy industry increased efficiency, higher quality and consistency, and opportunities for product innovation through its technological base. The volume is directed at food scientists and technologists, quality assurance personnel, analytical chemists, microbiologists, and consultants in automation and expert systems. During the last two decades significant advances have been made in the in vivo-diagnosis of gastrointestinal diseases. Although Ultrasound and CT as well as Endoscopy have had a major impact on the evaluation of liver, pancreas and bile diseases, there are a lot of indications for Nuclear Medicine procedures. These include new investigational procedures like esophageal scintigraphy, proof of bleeding sites, scintigraphy of inflammatory diseases, and intestinal resorption tests. Further, immunoscintigraphy with radiol-elled antibodies has gained wide-spread application especially in colon cancer. The differential diagnosis of liver tumors like haemangioma and focal nodular hyperplasia by means of blood pool and HID A-scintigraphy is nowadays a routine procedure. Other established methods like hepatobiliary scintigraphy and liver perfusion scintigraphy have proved to be reliable tools in the pre-and postoperative evaluation of patients with bile duct obstruction and portal hypertension. The aim of this book is to present the entire spectrum of Nuclear Medicine in Gastroenterology to our colleagues from internal medicine and surgery. Ultrasound and Sonography as well as CT will rule the field of gastroenterology, but there remain a certain number of unanswered questions. Nuclear Medicine provides a lot of reliable answers. H. J. Biersack and P. H. Cox July 1990 VB List of contributors Duncan M. Ackery, Department of Nuclear Medicine, Southampton General Hospital, Tremona Road, Southampton, Hampshire S09 4XY, U. K. Roland Bares (co-author: U. Buell), Department of Nuclear Medicine, Technical University of Aachen, Pauwelsstr. 1, DW-5100 Aachen, Germany. This instructive book takes you step by step through ways to track, merge, and manage both open source and commercial software projects with Mercurial, using Windows, Mac OS X, Linux, Solaris, and other systems. Mercurial is the easiest system to learn when it comes to distributed revision control. And it's a very flexible tool that's ideal whether you're a lone programmer working on a small project, or part of a huge team dealing with thousands of files. Mercurial permits a countless variety of development and collaboration methods, and this book offers several concrete suggestions to get you started. This guide will help you: Learn the basics of working with a repository, changesets, and revisions Merge changes from separate repositories Set up Mercurial to work with files on a daily basis, including which ones to track Get examples and tools for setting up various workflow models Manage a project that's making progress on multiple fronts at once Find and fix mistakes by isolating problem sources Use hooks to perform actions automatically in response to repository events Customize the output of Mercurial Mercurial: The Definitive Guide maintains a strong focus on simplicity to help you learn Mercurial quickly and thoroughly. "Modular Java" is a pragmatic guide to developing modular applications using OSGi, the framework for dynamic modularity in Java, and Spring Dynamic Modules, an OSGi extension to the Spring Framework. The most comprehensive review available today, Marshall's Physiology of Reproduction is the classic reference source for teachers and researchers of animal reproduction. Internationally recognised leaders in their respective fields provide an analytical synopsis of the area, review current research and outline their philosophical approach to the subject. Volume 3 of the fourth edition reviews the processes of pregnancy and lactation in mammals, incorporating marsupials, non-primate eutherians and primates including man. Book one covers pregnancy from ovulation to pre-parturition, book two reviews fetal physiology, parturition and lactation. The extensive coverage of the physiology of human reproduction and lactation makes this volume a particularly important reference source for researchers in human fertility control, while the review of large animal reproduction is relevant to veterinary and para-veterinary workers. That happy-go-lucky cartoon dog is back--in a bigger and better edition of an already great collector's guide. Boy's best friend Snoopy*r is collected by people around the world. From his joyous dance to his brave conflict with the Red Baron, he embodies what is best in the human spirit, and it's no wonder that collectors hold these images dear. Snoopy has appeared on thousands of items in the half-century since he was created by Charles M. Schulz in 1950. Here is Snoopy on household items, school supplies, books, clothing, sports, games, electronics, and more, all illustrated with over 710 color photographs. Concise captions and a brand new price guide make this a perfect book for all Snoopy fans. The color photographs and illustrations appearing in select monographs over the past decade represent a significant advance in surgical commu nication. Previously, black and white renderings were standard because color printing had not been perfected and its cost was prohibitive. We believe the gradual change from black and white etchings and reproductions to detailed color illustrations represents a tremendous twentieth century achievement. In our own urologic practices it became evident that the use of black and white sketches for teaching operative urology, while helpful, left too much to the surgeon's imagination. Even the dimension of depth, produced by varying the intensity of shading, often was inadequate in demonstrat ing subtle surgical details in a fossa or bed. Since color photography recently has been used to demonstrate oper ative techniques, we climbed on the bandwagon and photographed in color many of the major operative procedures. However, the reflection of light caused by normal tissue fluid significantly reduces the clarity of photo graphs. Not infrequently, the crucial operative step is obscured by light reflected on a trickle of blood. Even when meticulous care is taken to ir rigate and clean the surgical field, the tissue sheen obscures portions of the field. Color paintings by a gifted artist are not only unique, but can be extraordinary; the vividness with which subtleties can thus be portrayed cannot be matched by photography, black and white or color. The fabrication of MEMS has been predominately achieved by etching the polysilicon material. However, new materials are in large demands that could overcome the hurdles in fabrication or manufacturing process. Although, an enormous amount of work being accomplished in the area, most of the information is treated as confidential or privileged. It is extremely hard to find the meaningful information for the new or related developments. This book is collection of chapters written by experts in MEMS and NEMS technology. Chapters are contributed on the development of new MEMS and NEMS materials as well as on the properties of these devices. Important properties such as residual stresses and buckling behavior in the devices are discussed as separate chapters. Various models have been included in the chapters that studies the mode and mechanism of failure of the MEMS and NEMS. This book is meant for the graduate students, research scholars and engineers who are involved in the research and developments of advanced MEMS and NEMS for a wide variety of applications. Critical information has been included for the readers that will help them in gaining precise control over dimensional stability, quality, reliability, productivity and maintenance in MEMS and NEMS. No such book is available in the market that addresses the developments and failures in these advanced devices. Unless dealing with injury regularly, few surgeons can attain and sustain the level of skill necessary for decision making in major trauma. This includes both the intellectual decisions and the manual dexterity required to perform all the manoeuvres needed for surgical access and control. These can be particularly challenging, and may be infrequently required, yet rapid access to and control of sites of haemorrhage following trauma can be life-saving surgical intervention. Many situations require specialist trauma expertise, yet often this is simply not on hand within the available time frame. Manual of Definitive Surgical Trauma Care, Second Edition, is written by the editorial board of the DSTCTM, which is a short course focusing on the life-saving surgical techniques and surgical decision-making required for surgeons who deal with major surgical trauma on an infrequent basis. This course supplements the well-recognized and accepted American College of Surgeons' Advanced Trauma Life Support (ATLS®) course. This manual is published in association with IATSIC (the International Association for the Surgery of Trauma and Surgical Intensive Care), and is written by an Editorial Board of surgeons who belong to that society. IATSIC are broadening their reach and running more and more courses worldwide. This new second edition has been updated to incorporate all recent developments in this rapidly progressing area. It emphasizes how practical 'real-life' decisions on the care of the injured patient should be made and then covers in practical terms the surgical techniques required. Every aspect of surgical trauma care is covered, including: -the causation of injuries - aids rapid understanding of presented trauma; -the initial, pre-hospital and emergency department care of the patient - all of which may determine eventual outcome; -the resources required, both physical and intellectual, within the hospital to deal with the specific problems associated with patients with multiple injuries; the limitations in providing specialist expertise within the time frame required. It is an ideal practical manual for both trainees and qualified surgeons. We are working with Cambridge Assessment International Education to gain endorsement for this title. Develop theoretical and practical IT skills with this comprehensive Student's Book written by experienced authors and examiners specially for the updated Cambridge International Education A Level Information Technology syllabus (9626). - Improve understanding of concepts and terminology with clear explanations, labelled illustrations, photographs, diagrams, plus a glossary of key terms - Develop theoretical and practical skills with a range of exercises (multi choice through to discussion type questions), exam-style questions, step-by-step instructions and example answers that all ensure skills are developed alongside knowledge - Follow a structured route through the course with in-depth coverage of the full syllabus Also available in the series: Cambridge International AS Level Information Technology Student's Book 9781510483057 Cambridge International AS Level Information Technology Student eTextbook 9781510484429 Cambridge International AS Level Information Technology Whiteboard eTextbook 9781510484436 Cambridge International AS Level Information Technology Skills Workbook 9781510483064 Cambridge International A Level Information Technology Student eTextbook 9781398307018 Cambridge International A Level Information Technology Whiteboard eTextbook 9781398307025 Cambridge International A Level Information Technology Skills Workbook 9781398309029 Cambridge International AS & A Level Information Technology Online Teacher's guide - coming soon The mathematical theory of contact mechanics

is a growing field in engineering and scientific computing. This book is intended as a unified and readily accessible source for mathematicians, applied mathematicians, mechanics, engineers and scientists, as well as advanced students. The first part describes models of the processes involved like friction, heat generation and thermal effects, wear, adhesion and damage. The second part presents many mathematical models of practical interest and demonstrates the close interaction and cross-fertilization between contact mechanics and the theory of variational inequalities. The last part reviews further results, gives many references to current research and discusses open problems and future developments. The book can be read by mechanical engineers interested in applications. In addition, some theorems and their proofs are given as examples for the mathematical tools used in the models. Updated throughout and extensively illustrated, the Fifth Edition of *Neuroradiology Companion* is an ideal one-volume resource covering the fundamentals of neuroradiology for residents, fellows, and practitioners. More than 1,400 high-quality images depict key disorders of the brain, spine, and head and neck. Each disorder is presented in a concise, consistent manner, with bulleted Key Facts, six to eight images that show the most common findings, and suggested readings. This concise volume can be read cover-to-cover during neuroradiology rotations and also used for daily consultation in the reading room. An anthology by renewed, redeemed and restored women who found redemption by discovering their voice and becoming life changers

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