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Fundamentals of Semiconductors Springer Science & Business Media

Musculoskeletal diseases are rapidly becoming a major health concern. The incidence of osteoarthritis, the most common arthritic disorder, is increasing steadily due to the graying of the world population. This disease is responsible of human life, a time in for significant morbidity, particularly in the second half which the quality of life is of primary importance. The aim of this publication is to bring to physicians and scientists a comprehensive overview of the field, from molecules to men. The direct costs related to osteoarthritis have been increasing steadily over the years and will soon be comparable to those of other major illnesses, such as cardiovascular diseases. This, of course, does not take into account all of the other costs related to the disease which often cannot be simply calculated in dollars and cents. There has been a great deal of renewed interest in osteoarthritis in the last few decades. This has been brought on by the need to improve our knowledge of all aspects of the disease, especially with regard to its etiopathogenesis and treatment. The most recent findings and developments on the structural, bio chemical, biomechanical and molecular changes observed in clinical and ex perimental osteoarthritis are presented in this book.

F&S Index United States Annual Springer

This book presents current research in the study of the properties, clinical uses and adverse effects of acetaminophen. Topics discussed include advanced methods for the removal of acetaminophen from the water supply; acetaminophen overdose, biomarkers and management; acetaminophen hepatotoxicity and potential interactions with dietary supplements; and, sesame oil and sesamol for treating acetaminophen-overdose-associated liver injuries and paracetamol use in the elderly.

Popular Mechanics Springer Science & Business Media

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.

Acetaminophen Emerald Group Publishing

Shape-memory polymers (SMP) are a unique branch of the smart materials family which are capable of changing shape on-demand upon exposure to external stimulus. The discovery of SMP made a significant breakthrough in the developments of novel smart materials for a variety of engineering applications, superseded the traditional materials, and also influenced the

current methods of product designing. This book provides the latest advanced information of on-going research domains of SMP. This will certainly enlighten the reader to the achievements and tremendous potentials of SMP. The basic fundamentals of SMP, including shape-memory mechanisms and mechanics are described. This will aid reader to become more familiar with SMP and the basic concepts, thus guiding them in undergoing independent research in the SMP field. The book also provides the reader with associated challenges and existing application problems of SMP. This could assist the reader to focus more on these issues and further exploit their knowledge to look for innovative solutions. Future outlooks of SMP research are discussed as well. This book should prove to be extremely useful for academics, R&D managers, researcher scientists, engineers, and all others related to the SMP research.

The Legend of Briggs & Stratton University Press of Kentucky

Hurry! Hurry! Come one, come all. Meet a man who can pull two railroad passenger cars with his teeth and a real-life human cannon ball. Come face to face with a dead rattlesnake that still bites. And unlock the secrets of a magician's bodiless head. Welcome to this updated edition of *The Flying Circus of Physics*, where death-defying stunts, high-flying acrobatics, strange curiosities, and mind-bending illusions bring to life the fascinating feats of physics in the world around us. In 1977, Wiley published the first edition of Jearl Walker's *The Flying Circus of Physics*, which has sold over 100,000 copies and become a cult classic in the physics community. *The Flying Circus* is a compendium of interesting real world phenomena that can be explained using basic laws of physics. This new edition represents a thorough updating and modernization of the book. The new edition gives us the opportunity to highlight Jearl's creativity, his communication skills, and his ability to make physics interesting. Jearl Walker, Ph.D., professor of physics at Cleveland State University and the man who frequently walked on hot coals and lay on beds of nails all in the name of science, is the first recipient of the Outstanding Teaching Award from Cleveland State's College of Science. The College's Faculty Affairs Committee selected Dr. Walker as the first honoree based on his impressive contributions to science teaching over the last 30 years. In fact, the award in future years will be named the Jearl Walker Outstanding Teaching Award in recognition of his many achievements. Jearl Walker received his B.S. in physics from MIT in 1967 and his Ph.D. in physics from the University of Maryland in 1973. His popular book, *The Flying Circus of Physics*, has been translated into at least 10 languages and is

still being sold worldwide. For 16 years he toured his fun-filled Flying Circus lecture throughout the U.S. and Canada, introducing countless teachers to such physics phenomena as molecular adhesion by hanging spoons from his face and Leidenfrost's phenomenon by dipping his wet hand in molten lead without getting hurt. These lectures led to his national PBS television show, Kinetic Karnival, which ran for several years and won him a local Emmy Award. During his 13 years as a columnist with Scientific American magazine, Dr. Walker wrote 152 articles for "The Amateur Scientist" section, which were translated into at least 9 languages worldwide. His topics ranged from the physics of judo to the physics of bearnaise sauce and lemon meringue pie. In 1990, he took over the textbook Fundamentals of Physics from David Halliday and Robert Resnick and has now published the seventh edition of the book. He has appeared countless times on television and radio and in newspapers and magazines.

Financial Reporting & Analysis National Academies Press

There is a growing interest in, and acceptance of, qualitative research approaches in the health science disciplines, both as standalone methodologies and integrated with quantitative designs in mixed methods approaches. This comprehensive text provides deeper knowledge and application of a wide range of methodologies, methods and processes, enabling readers to develop their qualitative research skills. Divided into two parts, focusing first on methodologies and then on methods and processes, the text also includes revision of essential aspects of quantitative research as they apply to mixed methods research and a discussion of the uptake of qualitative research in the health sciences. The methodologies covered include: Grounded Theory; Historical Research; Ethnography; Phenomenology; Narrative Inquiry; Case Study Research; Critical Ethnography; Action Research and Mixed Methods. The methods and processes covered include: Interviewing and Analysis; Group Work and Analysis; Narrative Analysis; Discourse Analysis. Using accessible language to help extend readers' practical research skills, this is a thorough and reliable text to guide advanced students and researchers from all health-related disciplines - including nursing, midwifery, public health and physiotherapy - to the best use of qualitative research.

Bioelectromagnetism Nova Science Publishers

The mechanical engineering curriculum in most universities includes at least one elective course on the subject of reciprocating piston engines. The majority of these courses today emphasize the application of thermodynamics to engine efficiency, performance, combustion, and emissions. There are several very good textbooks that support education in these aspects of engine development. However, in most companies engaged in engine development there are far more engineers working in the areas of

design and mechanical development. University studies should include opportunities that prepare engineers desiring to work in these aspects of engine development as well. My colleagues and I have undertaken the development of a series of graduate courses in engine design and mechanical development. In doing so it becomes quickly apparent that no suitable textbook exists in support of such courses. This book was written in the hopes of beginning to address the need for an engineering-based introductory text in engine design and mechanical development. It is of necessity an overview. Its focus is limited to reciprocating-piston internal-combustion engines - both diesel and spark-ignition engines. Emphasis is specifically on automobile engines, although much of the discussion applies to larger and smaller engines as well. A further intent of this book is to provide a concise reference volume on engine design and mechanical development processes for engineers serving the engine industry. It is intended to provide basic information and most of the chapters include recent references to guide more in-depth study. *Principles of Tort Law* Springer Science & Business Media

This book aims to bring together a broad variety of examples of the role of pharmacogenomics in current drug development, uncovering dynamic concentration-dependent drug responses on biological systems to understand pharmacodynamics responses in human cancer where genetic lesions serve as tumor markers and provide a basis for cancer diagnosis. The book describes methods and protocols applied in molecular diagnostics. It offers pathologists and researchers providing molecular diagnostic services an array of the most recent and readily accessible reference to compare methods and techniques. Highlights include the molecular diagnosis of genetic aberrations by quantitative polymerase reaction (qPCR), sequence-specific oligonucleotide arrays, next-generation sequencing (NGS), CGH arrays-and methodologies directed at the detection of epigenetic events, high-throughput nucleic acid and protein arrays, direct sequencing and FISH-based methodologies, currently used in the diagnosis of solid tumors. The book also includes an innovative line of treatment in relation to the molecular prognosis, diagnosis and pharmacogenomics in the actual practice of clinical findings at molecular levels. The book covers the applications of numerous genetic testing methodologies; in approximately the chronological order of discovery and high-throughput diagnosis using advanced genomic approaches to identify such genes, in the search for novel drug targets and/or key determinants of drug reactions. It also

promotes a wider understanding of molecular diagnostics among physicians, medical students, and scientists in academics, industry and corporate world.

Regulations 43 ... Springer Science & Business Media

The Essential Cult TV Reader is a collection of insightful essays that examine television shows that amass engaged, active fan bases by employing an imaginative approach to programming. Once defined by limited viewership, cult TV has developed its own identity, with some shows gaining large, mainstream audiences. By exploring the defining characteristics of cult TV, The Essential Cult TV Reader traces the development of this once obscure form and explains how cult TV achieved its current status as legitimate television. The essays explore a wide range of cult programs, from early shows such as Star Trek, The Avengers, Dark Shadows, and The Twilight Zone to popular contemporary shows such as Lost, Dexter, and 24, addressing the cultural context that allowed the development of the phenomenon. The contributors investigate the obligations of cult series to their fans, the relationship of camp and cult, the effects of DVD releases and the Internet, and the globalization of cult TV. The Essential Cult TV Reader answers many of the questions surrounding the form while revealing emerging debates on its future.

Enhancing the Resilience of the Nation's Electricity System John Wiley & Sons

Despite the increased public awareness of traumatic brain injury (TBI), the complexities of the neuropsychiatric, neuropsychological, neurological, and other physical consequences of TBI of all severities across the lifespan remain incompletely understood by patients, their families, healthcare providers, and the media. Keeping pace with advances in the diagnosis, treatment, and science of TBI, the Textbook of Traumatic Brain Injury, Third Edition, comprehensively fills this gap in knowledge. Nearly all 50 chapters feature new authors, all of them experts in their field. Chapters new to this edition include biomechanical forces, biomarkers, neurodegenerative dementias, suicide, endocrine disorders, chronic disease management, and social cognition. An entirely new section is devoted to the evaluation and treatment of mild TBI, including injuries in athletes, military service members and veterans, and children and adolescents. These chapters join newly updated sections on the assessment and treatment of the cognitive, emotional, behavioral, and other physical sequelae of TBI. The Textbook of Traumatic Brain Injury is a must-read for all of those working in any of the multitude of disciplines that contribute to the care and rehabilitation of persons with brain injury. This new volume is also a potentially useful reference for policymakers in both the public and private

sectors.

Popular Science Springer

Emotions have widespread effects in organizations and underlie a broad range of dynamics in organizations. This volume explores the role that emotion plays in such diverse organizational phenomena as entrepreneurship, change, service failure, and creativity.

Molecular Diagnostics in Cancer Patients

Routledge

The extensively revised 8th edition thoroughly involves readers with Financial Statements by using real-world examples. The emphasis is on the analysis and interpretation of the end result of financial reporting and financial statements.

Brain Ischemia Nicholas Brealey

This text applies engineering science and technology to biological cells and tissues that are electrically conducting and excitable. It describes the theory and a wide range of applications in both electric and magnetic fields.

Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling American Psychiatric Pub

The Science of Life: Contributions of Biology to Human Welfare is the first of what we anticipate will be a series of monographs resulting from activities of the Federation of American Societies for Experimental Biology. From time to time material drawn from symposia presented at the annual meetings of the Societies, when considered suitable, will be published as separate FASEB Monographs. Usually, the material will have appeared in Federation Proceedings. Occasionally, other papers resulting from symposia, conferences, or special meetings sponsored by the Federation or one of its constituent societies will appear as a FASEB monograph. In some instances, special articles on the same topic will be drawn together under one cover. Why should information which has already been printed and distributed as a part of the editorial content of a journal be republished as a monograph? Most of the material to be included in this effort, particularly the symposia presented at the annual meetings of the six Federated Societies, will summarize the state of the art excellently. Such information will be of considerable value to students and teachers, especially for undergraduate honors courses or in graduate studies.

Popular Mechanics National Academies Press

This book focuses on a research field that is rapidly emerging as one of the most promising ones for the global optics and photonics community: the "lab-on-fiber" technology. Inspired by the well-established "lab on-a-chip" concept, this new technology essentially envisages novel and highly functionalized devices completely integrated into a single optical fiber for both communication and sensing applications. Based on the R&D experience of some of the world's leading authorities in the fields of optics, photonics, nanotechnology, and material science, this book provides a broad and accurate description of the main developments and achievements in the lab-on-fiber technology roadmap, also highlighting the new perspectives and challenges to be faced. This book is essential for scientists interested in the cutting-edge fiber

optic technology, but also for graduate students.

Predicasts F & S Index United States CRC Press

A comprehensive index to company and industry information in business journals.

Effective Teaching, Effective Learning MDPI

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.

Power Lawnmowers Open Road Media

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Measures for Progress UCL Press

The greatest small engines in the world are manufactured by Briggs & Stratton. From the informal partnership Stephen F. Briggs and Harold M. Stratton formed in 1908, Briggs & Stratton has evolved into an industry leader whose name is synonymous with the lawn mower engines it pioneered. The Legend of Briggs & Stratton, 208 pages, is filled with 125 color and 145 black & white images covering Briggs & Stratton's fascinating history.

Engineer in Charge Smithers Rapra

The relative lack of information on determinants of disease, disability, and death at major stages of a woman's lifespan and the excess morbidity and premature mortality that this engenders has important adverse social and economic ramifications, not only for Sub-Saharan Africa, but also for other regions of the world as well. Women bear much of the weight of world production in both traditional and modern industries. In Sub-Saharan Africa, for example, women contribute approximately 60 to 80 percent of agricultural labor. Worldwide, it is estimated that women are the sole supporters in 18 to 30 percent of all families, and that their financial contribution in the remainder of families is substantial and often crucial. This book provides a solid documentary base that can be used to develop an agenda to guide research and health policy formulation on female health—both for Sub-Saharan Africa and for other regions of the developing world. This book could also help facilitate ongoing, collaboration between African researchers on women's health and their U.S. colleagues. Chapters cover such topics as demographics, nutritional status, obstetric morbidity and mortality, mental health problems, and sexually transmitted diseases, including HIV.