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Machine Tool Metrology Springer
Let our teams of experts help you to stay competitive in a global marketplace. It is every company's goal to build the highest quality goods at the lowest price in the shortest time possible. With the Manufacturing Engineering Handbook you'll have access to information on conventional and modern manufacturing processes and operations management that you didn't have before. For example, if you are a manufacturing engineer responding to a request for proposal (RFP), you will find everything you need for estimating manufacturing cost, labor cost and overall production cost by turning to chapter 2, section 2.5, the manufacturing estimating section. The handbook will even outline the various manufacturing processes for you. If you are a plant engineer working in an automotive factory and find yourself in the hot working portion of the plant, you should look up section 6 on hot work and forging processing. You will find it very useful for learning the machines and processes to get the job done. Likewise, if you are a Design Engineer and need information regarding hydraulics, generators & transformers, turn to chapter 3, section 3.2.3, and you'll find generators & transformers. Covering topics from engineering mathematics to warehouse management systems, Manufacturing Engineering Handbook is the most comprehensive single-source guide to Manufacturing Engineering ever published.
Beyond Fukushima McGraw Hill Professional
This book discusses advances in our understanding of the structure and function of the maize genome since publication of the original B73 reference genome in 2009, and the progress in translating this knowledge into basic biology and trait improvement. Maize is an extremely important crop, providing a large proportion of the world's human caloric intake and animal feed, and serving as a model species for basic and applied research. The exceptionally high level of genetic diversity within maize presents opportunities and challenges in all aspects of maize genetics, from sequencing and genotyping to linking genotypes to phenotypes. Topics covered in this timely book range from (i) genome sequencing and genotyping techniques, (ii) genome features such as centromeres and epigenetic regulation, (iii) tools and resources available for trait genomics, to (iv) applications of allele mining and genomics-assisted breeding. This book is a valuable resource for researchers and students interested in maize genetics and genomics.
The Endometrium Springer
How and why did credible scientists, engineers, government officials, journalists, and others collectively give rise to a drastic failure to control the threat to the population of the Fukushima disaster? Why was there no effort on the part of inter-organizational networks, well-coordinated in the nuclear village, to prevent the risks from turning into a disaster? This book answers these questions by formulating the concept of "structural disaster" afresh. First, the book presents the path-dependent development of structural disaster through a sociological reformulation of path-dependent mechanisms not only in the context of nuclear energy but also in the context of renewable energy. Secondly, it traces the origins of structural disaster to a secret accident involving standardized military technology immediately before World War II, and opportunistic utilization of the Great Kanto Earthquake of 1923, thus reconstructing the development of structural disaster within a long-term historical perspective. Maintaining distance from conflicts of interest and cultural essentialisms, this book highlights configurations and mechanisms of structural disasters that are far more persistent, more universal, but less visible, and that have turned risk into suffering. The book seeks to cast light on an important new horizon of the science-technology-society interface in the sociology of science and technology, science and technology studies, the sociology of disaster, the social history of the military-industrial-university complex, and beyond.
Securing Japan Springer Science & Business Media
The present volume introduces new considerations on the topic of "World Literature", penned by leading representatives of the discipline from the United States, India, Japan, the Middle East, England, France and Germany. The essays revolve around the question of what, specifically in today's rapidly globalizing world, may be the productive implications of the concept of World Literature, which was first developed in the 18th century and then elaborated on by Goethe. The discussions include problems such as different script systems with varying literary functions, as well as questions addressing the relationship between ethnic self-description and cultural belonging. The contributions result from a conference that took place at the Dahlem Humanities Center, Freie Universität Berlin, in 2012.
Springer Science & Business Media
Reports of the beneficial health effects of some peptides have begun to make their way into the scientific literature. Peptides can act as immunomodulators, and have been shown to have a positive influence on calcium absorption, and on regulation of serum cholesterol. A number of peptides may also possess antimicrobial properties that enhance the body's defense mechanisms, and others may produce inhibitory effects for angiotensin-I-converting enzyme (ACE), leading to novel treatments for blood pressure conditions, heart failure, and diabetes. Modern food biotechnology may also allow for the production of highly important products for those suffering life-altering food allergies. A compendium of cutting-edge information for research scientists and clinicians Nutraceutical Proteins and Peptides in Health and Disease is the first book that provides comprehensive discussions on bioactive proteins and peptides in the area of nutraceutical and functional foods. It looks at protein and peptide impact on the body's absorption, defense, regulating, and nervous systems, then delves into hypo-allergenic foods and modern approaches to nutraceutical research and production. With 32 chapters written by 63 scientists working at the frontier of this revolutionizing field, it includes state-of-the-art information on-- The cholesterol-lowering capabilities of proteins and peptides Opioid-like peptides The antibodies found in milk and egg yolks Enzymes derived from traditional Asian fermented foods found useful in novel thrombolytic therapy ACE-inhibitory peptides Enzymatic treatments used to create anti-allergenic food Recent developments in proteomics that are making certain processes economically feasible, including those employed in the binding of bioactive peptides Nutraceutical Proteins and Peptides in Health and Disease provides a compendium of cutting-edge information that can be put to direct use in research, therapy, and production. Biochemists, nutritional scientists, food scientists, and health professionals, as well as graduate students in these fields, will find this book highly useful.
Service Robotics and Mechatronics Springer
Movement is the way that animals interact with their environment and is under the organization and complex control of the brain and spinal cord. Multiple central nervous systems, including cortex, basal ganglia, cerebellum, and brainstem, interact to provide precise motor control and integration. Damage or disease within these systems cause profound motor disturbances in man, which can be effectively modeled in animals to develop a better understanding and treatment of the human condition. Animal Models of Movement Disorders introduces a variety of methods and techniques used to model and assess motor function in experimental animals from lower orders, such as drosophila and c. elegans, through vertebrate species including fish, to mammals, such as rodents and non-human primates. The most advanced contemporary models in each system are presented at multiple levels of analysis from molecular and genetic modeling, lesions, anatomy, neurochemistry, to imaging and behavior. Volume II of this detailed collection contains sections on the basal ganglia, neo- and allo-cortical systems, cerebellar and brain stem systems, as well as spinal cord systems. Comprehensive and meticulous, Animal Models of Movement Disorders serves as a valuable reference for those studying motor disorders by covering methodologies in detail and providing the information necessary to consider both the appropriate models and assessment tools that can most informatively answer the key experimental issues in the field.

The Sociology of Structural Disaster Springer
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A Media Theory of Animation Springer Science & Business Media
Green technologies are no longer the “future” of science, but the present. With more and more mature industries, such as the process industries, making large strides seemingly every single day, and more consumers demanding products created from green technologies, it is essential for any business in any industry to be familiar with the latest processes and technologies. It is all part of a global effort to “go greener,” and this is nowhere more apparent than in fermentation technology. This book describes relevant aspects of industrial-scale fermentation, an expanding area of activity, which already generates commercial values of over one third of a trillion US dollars annually, and which will most likely radically change the way we produce chemicals in the long-term future. From biofuels and bulk amino acids to monoclonal antibodies and stem cells, they all rely on mass suspension cultivation of cells in stirred bioreactors, which is the most widely used and versatile way to produce. Today, a wide array of cells can be cultivated in this way, and for most of them genetic engineering tools are also available. Examples of products, operating procedures, engineering and design aspects, economic drivers and cost, and regulatory issues are addressed. In addition, there will be a discussion of how we got to where we are today, and of the real world in industrial fermentation. This chapter is exclusively dedicated to large-scale production used in industrial settings.
Programming with C+ Springer Science & Business Media
This book is devoted to innovative medicine, comprising the proceedings of the Uehara Memorial Foundation Symposium 2014. It remains extremely rare for the findings of basic research to be developed into clinical applications, and it takes a long time for the process to be achieved. The task of advancing the development of basic research into clinical reality lies with translational science, yet the field seems to struggle to find a way to move forward. To create innovative medical technology, many steps need to be taken: development and analysis of optimal animal models of human diseases, elucidation of genomic and epidemiological data, and establishment of “proof of concept”. There is also considerable demand for progress in drug research, new surgical procedures, and new clinical devices and equipment. While the original research target may be rare diseases, it is also important to apply those findings more broadly to common diseases. The book covers a wide range of topics and is organized into three complementary parts. The first part is basic research for innovative medicine, the second is translational research for innovative medicine, and the third is new technology for innovative medicine. This book helps to understand innovative medicine and to make progress in its realization.
Umbilicus and Umbilical Cord Springer Science & Business Media
The Routledge Handbook of Global Historical Archaeology is a multi-authored compendium of articles on specific topics of interest to today’s historical archaeologists, offering perspectives on the current state of research and collectively outlining future directions for the field. The broad range of topics covered in this volume allows for specificity within individual chapters, while building to a cumulative overview of the field of historical archaeology as it stands, and where it could go next. Archaeological research is discussed in the context of current sociological concerns, different approaches and techniques are assessed, and potential advances are posited. This is a comprehensive treatment of the sub-discipline, engaging key contemporary debates, and providing a series of specially-commissioned geographical overviews to complement the more theoretical explorations. This book is designed to offer a starting point for students who may wish to pursue particular topics in more depth, as well as for non-archaeologists who have an interest in historical archaeology. Archaeologists, historians, preservationists, and all scholars interested in the role historical archaeology plays in illuminating daily life during the past five centuries will find this volume engaging and enlightening.
Lens Epithelium and Posterior Capsular Opacification U of Minnesota Press
This book covers the latest advances in processing techniques for producing metallic biomaterial implants. It also discusses recent developments in surface modifications using bioactive ceramics and blood-compatible polymers, as well as the adhesive strength of bioactive surface layers, before introducing the practical applications of metallic biomaterials in the fields of surgery and dentistry. As such, the book provides an essential reference guide for researchers, graduate students and clinicians working in the fields of materials, surgery, dentistry, and mechanics. Mitsuo Niinomi, PhD, D.D.Sc., is a Professor at the Institute for Materials Research, Tohoku University, Japan Takayuki Narushima, PhD, is a Professor at the Department of Materials Processing, Tohoku University, Japan Masaaki Nakai, PhD, is an Associate Professor at the Institute for Materials Research, Tohoku University, Japan
Intra-Asian Trade and the World Market Springer
Maximizing reader insights into the key scientific disciplines of Machine Tool Metrology, this text will prove useful for the industrial-practitioner and those interested in the operation of machine tools. Within this current level of industrial-content, this book incorporates significant usage of the existing published literature and valid information obtained from a wide-spectrum of manufacturers of plant, equipment and instrumentation before putting forward novel ideas and methodologies. Providing easy to understand bullet points and lucid descriptions of metrological and calibration subjects, this book aids reader understanding of the topics discussed whilst adding a voluminous-amount of footnotes utilised throughout all of the chapters, which adds some additional detail to the subject. Featuring an extensive amount of photographic-support, this book will serve as a key reference text for all those involved in the field.
Anthropology and Science Beyond the Two-Culture Divide Springer
This is one in a series of manuals for car or motorcycle owners. Each book provides information on routine maintenance and servicing, with tasks described and photographed in a step-by-step sequence so that even a novice can do the work.
Genetic Nature/Culture New Age International
In a world suffering from an ageing population and declining birth rate, service robotics and mechatronics have an increasingly vital role to play in maintaining a safe and sustainable environment for everyone. Mechatronics can be used in the reconstruction or restoration of various environments which we rely upon to survive; for example the reconstruction of a city after an earthquake, or the restoration of polluted waters This collection of papers was originally presented at the 7th International Conference on Machine Automation, 2008, in Awaji, Japan, and covers a variety of new trends in service robotics and mechatronics. Service Robotics and Mechatronics showcases the latest research in the area to provide researchers and scientists with an up-to-date source of knowledge and basis for further study, as well as offering graduate students valuable reference material.
An Industrial Handbook John Wiley & Sons
Lymphangiogenesis and Cancer Metastasis introduces the new field of lymphatic vessel growth and development, and its relationship to the metastatic spread of cancer cells. The book covers all aspects of this new field from the fundamental role that protein growth factors and their receptors play in lymphangiogenesis to the potential application of these advances to cancer diagnosis and treatment. Other clinical aspects explored include the mechanisms and importance of lymph node metastasis, the role of the lymphatics in lymphangioleiomyomatosis and Kaposi’s sarcoma, and approaches for imaging lymphatics in cancer. The book also covers the innovative approaches taken by researchers to explore new roles for lymphatic vessel biology in the context of cancer. The information presented in this volume, which describes the revolutionary concepts of tumor lymphangiogenesis, will be of interest to all students, scientists and oncologists who are seeking to understand the complexities of tumor metastasis. Key Features: Presents fundamental concepts of tumor lymphangiogenesis and the molecules which control this process Provides a comprehensive summary of current research in this ground breaking area Provides a book which links progress in basic tumor and developmental biology with current and future oncology practise Is an essential text for molecular biologists, cell biologists and oncologists seeking to understand the implications of this rapidly developing area.
An Anthology of Classic Australian Folklore Cornell University Press
The 6th International Symposium on Artificial Heart and Assist Devices met in Tokyo in July 1996, bringing together researchers and specialists from around the world. The symposiums proceedings in this volume comprise papers from nine sessions, each opening with contributions by leading scientists: TAH, heart transplantation, biomaterials, VAS, clinical application, pathophysiology, engineering, new approaches, and special sessions. Of special note is the inclusion, for the first time, of pathophysiology related to clinical use of assist devices. The clinical application section includes a paper by Dr. Michael DeBakey on the progress made in recent years. With descriptions of the scientific exhibition, accompanied by photographs of all artificial heart devices and systems displayed by major laboratories and manufacturers, Artificial Heart 6 presents the latest information on developments in the field of artificial heart, biomaterials, and heart transplantation.
Metal Cutting Theory and Practice Springer Science & Business Media
Only elementary math skills are needed to follow this manual, which covers many machines and their components, including hydrostatics and hydraulics, internal combustion engines, trains, and more. 204 black-and-white illustrations.
Quality Gaging Tips Springer
Blizzard Entertainment’s StarCraft saga has captivated millions of players worldwide since its initial release in 1998. A genre-defining military strategy and sci-fi adventure, gamers are drawn to StarCraft’s iconic central characters, Sarah Kerrigan and Jim Raynor, and its thrilling storyline chronicling the battle between the scrappy Terrans, mystifying Protoss and terrifying Zerg swarm. Published in anticipation of the latest expansion, Legacy of the Void, StarCraft Field Manual draws on more than a decade’s worth of lore to create an all-encompassing collector’s item for fans, filling in every detail of the game’s extensive tech, races and units. A visually distinctive, in-world overview of the entire StarCraft franchise, this unique book unveils new details about the wide range of combat forces and technology employed by each of the three primary races within the game universe. A definitive field-guide, original illustrations pair with an engaging narrative that showcases all of the vital statistics, origins, lore and other interesting facts that have emerged in each expansion. This beautiful hardback edition is an ideal gift for StarCraft fans.
Index Medicus Routledge
This book is the first to summarize the current knowledge of the cell biology of lens epithelial cells in relation to and in the development of posterior capsular opacification (PCO). PCO remains the most common long-term complication of modern cataract surgery, occurring months or years after cataract surgery, unlike most other complications that tend to arise during or soon after the procedure. Opacification of the posterior capsule appears to be linked to lens epithelial cells that are left behind in the eye during cataract removal. These cells proliferate, migrate across the posterior lens capsule, and undergo changes that result in fibrous or pearl-type opacities in the capsule. The first section of the text explains the molecular mechanism and biology of lens epithelial cells that lead to the incidence of PCO. In the second part, in addition to a description of the mechanism and pathological condition of PCO, surgical methods and devices for preventing PCO are discussed in detail. Lens Epithelium and Capsular Opacification will benefit not only young clinical residents and junior researchers, but also established faculty in the clinical or basic academic field.
□□□□□□□□□ CRC Press
Physics of Cancer focuses on the mechanical properties of cancer cells and their role in cancer disease and metastasis. It discusses the role of the mechanical properties of interacting cells and the connective tissue microenvironment and describes the role of an inflammation during cancer disease. This outstanding book is the first to describe cancer disease from a biophysical point of view without being incomplete in describing the biological site of cancer. Originating in part from the author's own courses on tumor biology and cellular biophysics, this book is suitable for both students and researchers in this dynamic interdisciplinary field, be they from a physical, biological or medical sciences background.

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