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Materials and Processes

The Thermal-hydraulics of a Boiling Water Nuclear Reactor

Surgical Decision Making E-Book

Multiphase Flow Handbook, Second Edition

Smart Objects and Technologies for Social Good

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Polarized Light in Animal Vision

Publications of the National Bureau of Standards, 1966-1967

Metallurgical Assessment of Spacecraft Parts, Materials, and Processes

Trauma Induced Coagulopathy

Comparative Environmental Impacts of Biotechnology-derived and Traditional Soybean, Corn, and Cotton Crops

Abdominal Sepsis

Decision Analysis for Management Judgment

Handbook of Chemical and Environmental Engineering Calculations

The Management of Trauma

Treatise on Zoology - Anatomy, Taxonomy, Biology. The Myriapoda

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DANIELA LONG

Materials and Processes Springer

This edition includes updated case studies, illustrations and failure investigations. Examples and photos include space-part production and test failures in electrical inter-connects, structural welds, and corrosion and storage induced problems.

The Thermal-hydraulics of a Boiling Water Nuclear Reactor John Wiley & Sons

Using a proven, practical, algorithmic approach, Surgical Decision Making summarizes evidence-based guidelines and practice protocols in an easy-to-follow format. Designed to sharpen the decision-making skills of both trainees and practicing surgeons, the 6th Edition directs your focus to the critical decision points in a wide range of clinical scenarios, helping you determine optimal evaluation and management to secure the best possible patient outcomes. Algorithms are accompanied by annotations that explain all critical factors affecting decisions in a concise,

readable manner. - Reflects the scope of practice of today's general surgeon, with fresh, expert perspectives from new editor Dr. Richard Schulick and numerous new contributors. - Contains 58 new chapters and thoroughly revised content throughout. - Includes new coverage of Preoperative Evaluation of the Geriatric Patient, Pancreatic Cystic Neoplasm, Familial Breast Cancer, Resuscitative Endovascular Balloon Occlusion of the Aorta, Blunt Cerebrovascular Injury, and much more. - Uses an easy-to-follow, consistent format, with an algorithm on one page and short descriptions explaining the various steps in the decision-making process on the opposite page. - Includes explanatory notes that summarize presenting signs and symptoms, laboratory investigation, diagnostic modalities, surgical therapies, and adjuvant therapies for each condition. - Encompasses both general surgery and surgical subspecialties—helping you directly manage a broad range of problems. - Emphasizes information that frequently appears on board exams.

Surgical Decision Making E-Book Springer Nature

This book constitutes the proceedings of the Second EAI international Conference on Smart Objects and Technologies for Social Good, GOODTECHS 2016, held in Venice, Italy, November 30 -

December 1, 2016. The 38 revised full papers were carefully reviewed and selected from 73 submissions. The papers reflect the design, implementation, deployment, operation and evaluation of smart objects and technologies for social good. A social good can be understood as a service that benefits a large number of people in a most possible way. Some classic examples are healthcare, safety, environment, democracy, and human rights, or even art, entertainment, and communication.

Multiphase Flow Handbook, Second Edition Springer Science & Business Media

Contributions reporting on fundamental and applied investigations of the material science, biochemistry, and physics of biomedical microdevices with applications to Genomics and Proteomics. Topics include gene expression profiling utilizing microarray technology; imaging and sensing for gene detection and use in DNA analysis; and coverage of advanced microfluidic devices and the Humane Genome Project.

Smart Objects and Technologies for Social Good BRILL

This edition of the classic monograph gives a comprehensive overview of the thermal-hydraulic

technology underlying the design, operation, and safety assessment of boiling water reactors. In addition, new material on pressure suppression containment technology is presented.

Lentil Thieme

An authoritative pocket-sized guide on the medical and surgical management of neurosurgical intensive care patients Decompression is still the mainstay of surgical intervention for neurosurgeons treating neurocritical care patients. However, during the last 20 years, an evolution away from a mechanistic approach has transformed neurocritical care into an increasingly multidisciplinary field. Neurosurgical Intensive Care, 2nd Edition reflects this new paradigm, authored by a neurosurgeon with contributions from experts in the fields of neurology, vascular neurology, interventional neuroradiology, anesthesiology, critical care, traumatology, nutrition, and advanced practice nursing. Neuromonitoring advances have enabled customized interventions tailored to each patient's unique circumstances. The critical care of neurosurgical patients has evolved from an emphasis on pulmonary care (ventilation and oxygenation) to a more nuanced understanding of cerebral protection measures required to manage a disrupted blood-brain-barrier. This edition encompasses advances in the use of ICP monitors, external ventricular devices, brain tissue oxygen monitoring devices, cerebral microdialysis, fluid and electrolyte correction, as well as the increasing use of continuous EEG in the ICU. Key Features Straightforward summaries for each stage of patient care including bedside exams, neuroimaging, lab work, triage procedures, sedation and pain management, neuropharmacology, nutritional needs, administration of fluids, and more. 159 tables and figures facilitate rapid evaluation and decision making. Clinical pearls on a wide range of ICU scenarios - from pathophysiology and management of coma - to interventions for spinal cord injury, multisystem injuries, acute ischemic stroke, and pediatric cases. Insights on how to handle family communication and spiritual needs, medical-legal issues, and discharge planning This compact, highly practical handbook provides a stellar reference for managing critically ill neurosurgical patients in the ICU. It is a must-have resource for nurses, medical students, residents, fellows, and attending physicians who treat these patients.

Polarized Light in Animal Vision Courier Corporation

This book presents a comprehensive overview of the freezing of colloidal suspensions and explores cutting-edge research in the field. It is the first book to deal with this phenomenon from a multidisciplinary perspective, and examines the various occurrences, their technological uses, the fundamental phenomena, and the different modeling approaches. Its chapters integrate input from fields as diverse as materials science, physics, biology, mathematics, geophysics, and food science, and therefore provide an excellent point of departure for anyone interested in the topic. The main content is supplemented by a wealth of figures and illustrations to elucidate the concepts presented, and includes a final chapter providing advice for those starting out in the field. As such, the book provides an invaluable resource for materials scientists, physicists, biologists, and mathematicians, and will also benefit food engineers, civil engineers, and materials processing professionals.

Publications of the National Bureau of Standards, 1966-1967 John Wiley & Sons

This book was stimulated by the enthusiasm shown by attendees at the meetings in Saxon River, VT, sponsored by the Federation of American Societies for Experimental Biology (FASEB), on the subject of the intestinal processing of lipids. When these meetings were first started in 1990, the original organizers, two of whom are editors of this volume (CMM and PT), had two major goals. The first was to bring together a diverse group of investigators who had the common goal of gaining a better understanding of how the intestine absorbs lipids. The second was to stimulate the interest of younger individuals whom we wished to recruit into what we believed was an exciting and fruitful area of research. Since that time, the field has opened up considerably with new questions being asked and new answers obtained, suggesting that our original goals for the meetings were being met. In the same spirit, it occurred to us that there has not been a recent book that draws together much of the information available concerning how the intestine processes lipids. This book is intended to reach investigators with an interest in this area and their pre- and post-doctoral students. The chapters are written by individuals who have a long-term interest in the areas about which they write, and many have been speakers at the subsequent FASEB conferences that have followed on the first.

Metallurgical Assessment of Spacecraft Parts, Materials, and Processes Springer Science & Business Media

The first edition of this publication was aimed at defining the current concepts of trauma induced coagulopathy by critically analyzing the most up-to-date studies from a clinical and basic science

perspective. It served as a reference source for any clinician interested in reviewing the pathophysiology, diagnosis, and management of the coagulopathic trauma patient, and the data that supports it. By meticulously describing the methodology of most traditional as well as state of the art coagulation assays the reader is provided with a full understanding of the tests that are used to study trauma induced coagulopathy. With the growing interest in understanding and managing coagulation in trauma, this second edition has been expanded to 46 chapters from its original 35 to incorporate the massive global efforts in understanding, diagnosing, and treating trauma induced coagulopathy. The evolving use of blood products as well as recently introduced hemostatic medications is reviewed in detail. The text provides therapeutic strategies to treat specific coagulation abnormalities following severe injury, which goes beyond the first edition that largely was based on describing the mechanisms causing coagulation abnormalities. Trauma Induced Coagulopathy 2nd Edition is a valuable reference to clinicians that are faced with specific clinical challenges when managing coagulopathy.

Trauma Induced Coagulopathy Elsevier Health Sciences

Bioprocess engineering has played a key role in biotechnology, contributing towards bringing the exciting new discoveries of molecular and cellular biology into the applied sphere, and in maintaining established processes, some centuries-old, efficient and essential for today's industry. Novel developments and new application areas of biotechnology, along with increasing constraints in costs, product quality, regulatory and environmental considerations, have placed the biochemical engineer at the forefront of new challenges. This second volume of Advances in Bioprocess Engineering reflects precisely the multidisciplinary nature of the field, where new and traditional areas of application are nurtured by a better understanding of fundamental phenomena and by the utilization of novel techniques and methodologies. The chapters in this book were written by the invited speakers to the 2nd International Symposium on Bioprocess Engineering, Mazatlan, Mexico, September 1997.

Comparative Environmental Impacts of Biotechnology-derived and Traditional Soybean, Corn, and Cotton Crops Springer Science & Business Media

A revised edition of the well-received thermodynamics text, this work retains the thorough coverage and excellent organization that made the first edition so popular. Now incorporates industrially relevant microcomputer programs, with which readers can perform sophisticated thermodynamic calculations, including calculations of the type they will encounter in the lab and in industry. Also provides a unified treatment of phase equilibria. Emphasis is on analysis and prediction of liquid-liquid and vapor-liquid equilibria, solubility of gases and solids in liquids, solubility of liquids and solids in gases and supercritical fluids, freezing point depressions and osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

Abdominal Sepsis Palgrave

A must for experts in industry, this book describes the application of vibrational (FTIR, UV, Raman) and mass spectrometry and other instrumental techniques for identification and structure elucidation of plastics additives. Numerous tables and figures compress the state of the art.

Decision Analysis for Management Judgment BRILL

The subject of this volume is two-fold. First, it gathers typical polarization patterns occurring in nature. Second, it surveys the polarization-sensitive animals, the physiological mechanisms and biological functions of polarization sensitivity as well as the polarization-guided behaviour in animals. The monograph is prepared for biologists, physicists and meteorologists, especially for experts of atmospheric optics and animal vision, who wish to understand and reveal the message hidden in polarization patterns of the optical environment not directly accessible to the human visual system, but measurable by polarimetry and perceived by many animals. Our volume is an attempt to build a bridge between these two physical and biological fields. In Part I we introduce the reader to the elements of imaging polarimetry. This technique can be efficiently used, e. g. in atmospheric optics, remote sensing and biology. In Part II we deal with typical polarization patterns of the natural optical environment. Sunrise/sunset, clear skies, cloudy skies, moonshine and total solar eclipses all mean quite different illumination conditions, which also affect the spatial distribution and strength of celestial polarization. We present the polarization patterns of the sky and its unpolarized (neutral) points under sunlit, moonlit, clear, cloudy and eclipsed conditions as a function of solar elevation. The polarization pattern of a rainbow is also shown. That part of the spectrum is derived in which perception of skylight polarization is optimal under partly cloudy skies.

Handbook of Chemical and Environmental Engineering Calculations American Mathematical Soc.

It is the organization and presentation of the material, however, which make the peculiar appeal of the book. This is no mere compendium of results--the subject has been completely reworked and the proofs recast with the skill and elegance which come only from years of devotion. --Bulletin of the American Mathematical Society The very clear and simple presentation gives the reader easy access to the more difficult parts of the theory. --Jahrbuch über die Fortschritte der Mathematik In 1937, the theory of matrices was seventy-five years old. However, many results had only recently evolved from special cases to true general theorems. With the publication of his Colloquium Lectures, Wedderburn provided one of the first great syntheses of the subject. Much of the material in the early chapters is now familiar from textbooks on linear algebra. Wedderburn discusses topics such as vectors, bases, adjoints, eigenvalues and the characteristic polynomials, up to and including the properties of Hermitian and orthogonal matrices. Later chapters bring in special results on commuting families of matrices, functions of matrices--including elements of the differential and integral calculus sometimes known as matrix analysis, and transformations of bilinear forms. The final chapter treats associative algebras, culminating with the well-known Wedderburn-Artin theorem that simple algebras are necessarily isomorphic to matrix algebras. Wedderburn ends with an appendix of historical notes on the development of the theory of matrices, and a bibliography that emphasizes the history of the subject.

The Management of Trauma John Wiley & Sons

This book provides a state-of-the-art look at the applied biomechanics of accidental injury and prevention. The editors, Drs. Narayan Yoganandan, Alan M. Nahum and John W. Melvin are recognized international leaders and researchers in injury biomechanics, prevention and trauma medicine. They have assembled renowned researchers as authors for 29 chapters to cover individual aspects of human injury assessment and prevention. This third edition is thoroughly revised and expanded with new chapters in different fields. Topics covered address automotive, aviation, military and other environments. Field data collection; injury coding/scaling; injury epidemiology; mechanisms of injury; human tolerance to injury; simulations using experimental, complex computational models (finite element modeling) and statistical processes; anthropomorphic test device design, development and validation for crashworthiness applications in topics cited above; and current regulations are covered. Risk functions and injury criteria for various body regions are included. Adult and pediatric populations are addressed. The exhaustive list of references in many areas along with the latest developments is valuable to all those involved or intend to pursue this important topic on human injury biomechanics and prevention. The expanded edition will interest a variety of scholars and professionals including physicians, biomedical researchers in many disciplines, basic scientists, attorneys and jurists involved in accidental injury cases and governmental bodies. It is hoped that this book will foster multidisciplinary collaborations by medical and engineering researchers and academicians and practicing physicians for injury assessment and prevention and stimulate more applied research, education and training in the field of accidental-injury causation and prevention.

Treatise on Zoology - Anatomy, Taxonomy, Biology. The Myriapoda Springer Science & Business Media

The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The sciences of metallic (primarily) and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes, which involve quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by astronauts and returned to Earth from long durations in space are examined. Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic

sub-systems.

Treatise on Zoology - Anatomy, Taxonomy, Biology. The Crustacea, Volume 9 Part A
Springer Science & Business Media

"The Myriapoda" is the first comprehensive monograph ever on all aspects of myriapod biology, including external and internal morphology, physiology, reproduction, development, distribution, ecology, phylogeny and taxonomy. It is thus of major interest for all zoologists and soil biologists.

Lectures on Matrices CRC Press

Because of the ubiquitous nature of environmental problems, a variety of scientific disciplines are involved in the development of environmental solutions. The Handbook of Chemical and Environmental Engineering Calculations provides approximately 600 real-world, practical solutions to environmental problems that involve chemical engineering, enabling engineers and applied scientists to meet the professional challenges they face day-to-day. The scientific and mathematical crossover between chemical and environmental engineering is the key to solving a host of environmental problems. Many problems included in the Handbook are intended to demonstrate this crossover, as well as the integration of engineering with current regulations and environmental media such as air, soil, and water. Solutions to the problems are presented in a programmed instructional format. Each problem contains a title, problem statement, data, and solution, with the more difficult problems located near the end of each problem set. The Handbook

offers material not only to individuals with limited technical background but also to those with extensive industrial experience. Chapter titles include: Chemical Engineering Fundamentals Chemical Engineering Principles Air Pollution Control Equipment Solid Waste Water Quality and Wastewater Treatment Pollution Prevention Health, Safety, and Accident Management Ideal for students at the graduate and undergraduate levels, the Handbook of Chemical and Environmental Engineering Calculations is also a comprehensive reference for all plant and environmental engineers, particularly those who work with air, drinking water, wastewater, hazardous materials, and solid waste.

Chemical and Engineering Thermodynamics Springer

Cardiac cell biology has come of age. Recognition of activated or modified signaling molecules by specific antibodies, new selective inhibitors, and fluorescent fusion tags are but a few of the tools used to dissect signaling pathways and cross-talk mechanisms that may eventually allow rational drug design. Understanding the regulation of cardiac hypertrophy in all its complexity remains a fundamental goal of cardiac research. Since the advancement of adenovirally mediated gene transfer, transfection efficiency is no longer a limiting factor in the study of cardiomyocytes. A limiting factor in considering cell transplantation as a strategy to repair the damaged heart is cell availability at the right time. Cardiac gap junctions, intercellular communication channels that

allow electrical and metabolic coupling and play an important role in arrhythmogenesis are now understood to be exquisite sensors of cardiac change. The reports in this volume include elegant studies that made use of cutting edge technological advances and many specialized reagents to address these issues.

Aviation News Springer

This book focuses on the modern clinical management of acute and chronic pain syndromes. It not only presents information in a clinically illuminating format, but in a manner that is cognizant of the current prescription opioid epidemic. Divided into seven sections, this book covers acute pain, common pain conditions, regional pain problems, interdisciplinary evaluation and treatment, medical treatments and pain in different stages of life. Concluding with the exploration of several special topics, the last section includes an important discussion on the regulatory and legal issues in the use of controlled substances. Chapters are concise and relevant, with an emphasis on treatment based upon evidence from clinical trials and interpretation by practitioners in the field. Expertly written text is further supplemented by high-quality figures, images and tables outlining proven treatments with drug, dose or other information describing details of treatment. Timely, informative, and socially conscious, Pain Management for Clinicians: A Guide to Assessment and Treatment is a valuable reference for clinicians who manage patients with chronic and common pain problems.

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