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Annual Book of ASTM Standards Materials Research Forum LLC

Advances in Drinking Water Purification: Small Systems and Emerging Issues captures the knowledge and impact on the performance of various types of water purification technologies and identities the need for further development with a view to carry forward the SDG global targets of achieving safe and affordable drinking water. The book bridges the knowledge gap between various types of treatability options which is essential for selection of suitable treatment systems and augmentation in the desirable levels of specific contaminants. It focuses on providing the scope of selecting location specific technology options by presenting multiple approaches for treatment of most crucial toxic contaminants/pathogens. In addition, it provides insights into the effect of nature of impurities and selection of treatment options on the global quality of drinking water, comprising its possible impacts on the efficiency of the techniques used and thus on the safety of drinking water. This information is indispensable in identifying the appropriate technology depending on the socioeconomic conditions to address the problem of decontamination in drinking water. Discusses point-of-use devices for the removal of organic and inorganic contaminants from drinking water Provides a multipronged approach to encourage, recognize, protect and commercialize available options for water purification Includes case studies for field testing/pilot trials Provides an in-depth analysis on the efficacy of small systems with an emphasis on the sustainability, socio-technical aspects and emerging issues

Organic Pollutants in Wastewater II CRC Press

Since the beginning of mankind on Earth, if the "busyness" process was successful, then some form of benefit sustained it. The fundamentals are obvious: get the right inputs (materials, labor, money, and ideas); transform them into highly demanded, quality outputs; and make it available in time to the end consumer. Illustrating how operations relate to the rest of the organization, *Production and Operations Management Systems* provides an understanding of the production and operations management (P/OM) functions as well as the processes of goods and service producers. The modular character of the text permits many different journeys through the materials. If you like to start with supply chain management (Chapter 9) and then move on to inventory management (Chapter 5) and then quality management (Chapter 8), you can do so in that order. However, if your focus is product

line stability and quick response time to competition, you may prefer to begin with project management (Chapter 7) to reflect the continuous project mode required for fast redesign rapid response. Slides, lectures, Excel worksheets, and solutions to short and extended problem sets are available on the Downloads / Updates tabs. The project management component of P/OM is no longer an auxiliary aspect of the field. The entire system has to be viewed and understood. The book helps students develop a sense of managerial competence in making decisions in the design, planning, operation, and control of manufacturing, production, and operations systems through examples and case studies. The text uses analytical techniques when necessary to develop critical thinking and to sharpen decision-making skills. It makes production and operations management (P/OM) interesting, even exciting, to those who are embarking on a career that involves business of any kind.

Solutions! CRC Press

This book presents new approaches and methods to solve real-world problems as well as exploratory research describing novel approaches in the field of software engineering and intelligent systems. It particularly focuses on modern trends in selected fields of interest, introducing new algorithms, methods and application of intelligent systems in software engineering. The book constitutes the refereed proceedings of the Software Engineering Trends and Techniques in Intelligent Systems Section of the 6th Computer Science On-line Conference 2017 (CSOC 2017), held in April 2017.

Systems Engineering Mathematics CRC Press

Microbial fuel cells are very promising as renewable energy sources. They are based on the direct conversion of organic or inorganic materials to electricity by utilizing microorganisms as catalysts. These cells are well suited for applications that require only low power, e.g. ultracapacitors, toys, electronic gadgets, meteorological buoys, remote sensors, digital wristwatches, smartphones and hardware in space and robots. In addition to electricity generation, microbial fuel cells can be used for wastewater treatment, desalination and biofuel production. The book addresses characterization techniques and operating conditions of microbial fuel cells, as well as the usefulness of various types of anode and cathode materials.

Federal Register Xlibris Corporation

Software Designers in Action: A Human-Centric Look at Design Work examines how developers actually perform software design in their day-to-day work. The book offers a comprehensive look at early software design, exploring the work of professional designers from a range of different viewpoints. Divided into four sections, it discusses various theore

PM Net Work CRC Press

There are essentially two theories of solutions that can be considered exact: the McMillan–Mayer

theory and Fluctuation Solution Theory (FST). The first is mostly limited to solutes at low concentrations, while FST has no such issue. It is an exact theory that can be applied to any stable solution regardless of the number of components and their concentrations, and the types of molecules and their sizes. Fluctuation Theory of Solutions: Applications in Chemistry, Chemical Engineering, and Biophysics outlines the general concepts and theoretical basis of FST and provides a range of applications described by experts in chemistry, chemical engineering, and biophysics. The book, which begins with a historical perspective and an introductory chapter, includes a basic derivation for more casual readers. It is then devoted to providing new and very recent applications of FST. The first application chapters focus on simple model, binary, and ternary systems, using FST to explain their thermodynamic properties and the concept of preferential solvation. Later chapters illustrate the use of FST to develop more accurate potential functions for simulation, describe new approaches to elucidate microheterogeneities in solutions, and present an overview of solvation in new and model systems, including those under critical conditions. Expert contributors also discuss the use of FST to model solute solubility in a variety of systems. The final chapters present a series of biological applications that illustrate the use of FST to study cosolvent effects on proteins and their implications for protein folding. With the application of FST to study biological systems now well established, and given the continuing developments in computer hardware and software increasing the range of potential applications, FST provides a rigorous and useful approach for understanding a wide array of solution properties. This book outlines those approaches, and their advantages, across a range of disciplines, elucidating this robust, practical theory.

Industrial Air Quality and Ventilation John Wiley & Sons

The essential therapy guide to cancer, hematologic disorders, and supportive care—updated with the latest treatment regimens A Doody's Core Title for 2023! Hematology-Oncology Therapy, Third Edition, is an up-to-date, comprehensive therapy guide that delivers more than 800 treatment regimens in a succinct, uniform format. Supported by the latest practice guidelines, peer-reviewed literature, and insights from experts in the field, this peerless resource integrates extensive information critical to both office- and hospital-based practice of hematology and oncology. Hematology-Oncology Therapy is divided into four sections: Cancer Regimens: Covers administration, toxicity, dose modification, monitoring, supportive care, and the efficacy of commonly used and recently approved therapeutic regimens, and includes expert opinion and critical information on epidemiology, pathology, work-up, and staging, as well as survival data Antiemetics, Growth Factors, Dose Modification and Drug Preparation: Provides in-depth coverage of antiemetics, growth factors, and the administration and formulation of anti-cancer drugs Supportive Care, Complications, and Screening (online): Offers thorough coverage of topics commonly encountered in clinical hematology-oncology practice Selected Hematologic Diseases (online): provides an authoritative guide to therapy for principal diseases in consultative hematology The entire content is now online at AccessHemOnc.com. The online platform created for the third edition will be continually updated, including newly approved regimens.

Solutions Manual: Understanding Physics Like a Nerd Without Becoming One & More CRC Press

Experienced Guidance on the Technical Issues of Decommissioning Projects Written by one of the original MARSSIM authors, Decommissioning Health Physics: A Handbook for MARSSIM Users, Second Edition is the only book to incorporate all of the requisite technical aspects of planning and executing radiological surveys in support of decommissioning. Extensively revised and updated, it covers survey instrumentation, detection sensitivity, statistics, dose modeling, survey procedures, and release criteria. New to the Second Edition Chapter

on hot spot assessment that recognizes appropriate dosimetric significance of hot spots when designing surveys and includes a new approach for establishing hot spot limits Chapter on the clearance or release of materials, highlighting aspects of the MARSAME manual Revised chapter on characterization survey design to reflect guidance in ANSI N13.59 on the value of data quality objectives (DQOs) Updated regulations and guidance documents throughout Updated survey instrumentation used to support decontamination and decommissioning (D&D) surveys, including expanded coverage of in situ gamma spectrometers Revised statistics chapter that includes an introduction to Bayesian statistics and additional double sampling and ranked set sampling statistical approaches More case studies and examples throughout Implement the Surveys Effectively and Avoid Common Pitfalls With more than 20 years of experience as a practitioner in the decommissioning survey field, author Eric W. Abelquist prepares you for the technical challenges associated with planning and executing MARSSIM surveys. He discusses the application of statistics for survey design and data reduction and addresses the selection of survey instrumentation and detection sensitivity. He presents final status survey procedures and covers pathway modeling to translate release criteria to measurable quantities. He also offers solutions for navigating the complexity inherent in designing and implementing MARSSIM and MARSAME surveys. Detailed derivations, thorough discussions of technical bases, and real-world examples and case studies illustrate effective strategies for demonstrating to regulators and stakeholders that contaminated sites can be released for other beneficial uses.

Nanostructures in Biological Systems Elsevier

The component parts of a manufacturing system are important. Without peripherals and services such as pumps, boilers, power transmission, water treatment, waste disposal, and efficient lighting, the system will collapse. Food Plant Engineering Systems, Second Edition fills the need for a reference dealing with the bits and pieces that keep systems running, and also with how the peripheral parts of a processing plant fit within the bigger picture. The author has gathered information from diverse sources to introduce readers to the ancillary equipment used in processing industries, including production line components and environmental control systems. He explores the buildings and facilities as well as the way various parts of a plant interact to increase plant production. This new edition covers the systems approach to Lean manufacturing, introducing Lean principles to the food industry. It also addresses sustainability and environmental issues, which were not covered in the first edition. Written so readers with only basic mathematical knowledge will benefit from the content, the text describes measurements and numbers as well as general calculations, including mass and energy balances. It addresses the properties of fluids, pumps, and piping, and provides a brief discussion of thermodynamics. In addition, it explores electrical system motors, starters, heating, and lights; heating systems and steam generation; cooling and refrigeration systems; and water, waste, and material handling systems. The text also deals with plant design, including location, foundations, floors, walls, roofs, drains, and insulation. The final chapter presents an overview of safety and OSHA regulations, and the appendices provide conversion tables and an introduction to mathematics.

Microbial Fuel Cells Springer

Advanced Material Interfaces is a state-of-the-art look at innovative methodologies and strategies adopted for interfaces and their applications. The 13 chapters are written by eminent researchers not only elaborate complex interfaces fashioned of solids, liquids, and gases, but also ensures cross-disciplinary mixture and blends of physics, chemistry, materials science, engineering and life sciences. Advanced interfaces operate fundamental roles in essentially all integrated devices. It is therefore of the utmost urgency to focus on how newly-discovered fundamental constituents and interfacial progressions can be materialized and used for precise purposes. Interfaces are associated in wide multiplicity of application spectrum from chemical catalysis to drug functions and the advancement is funnelled by fine-tuning of our fundamental understanding of the interface effects.

Plunkett's E-commerce & Internet Business Almanac 2006 Emmanuel Light of the World Publishing

Company, LLC

Soil-structure interaction is an area of major importance in geotechnical engineering and geomechanics. *Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models* covers computer and analytical methods for a number of geotechnical problems. It introduces the main factors important to the application of computer methods and constitutive models with emphasis on the behavior of soils, rocks, interfaces, and joints, vital for reliable and accurate solutions. This book presents finite element (FE), finite difference (FD), and analytical methods and their applications by using computers, in conjunction with the use of appropriate constitutive models; they can provide realistic solutions for soil-structure problems. A part of this book is devoted to solving practical problems using hand calculations in addition to the use of computer methods. The book also introduces commercial computer codes as well as computer codes developed by the authors. Uses simplified constitutive models such as linear and nonlinear elastic for resistance-displacement response in 1-D problems. Uses advanced constitutive models such as elasticplastic, continued yield plasticity and DSC for microstructural changes leading to microcracking, failure and liquefaction. Delves into the FE and FD methods for problems that are idealized as two-dimensional (2-D) and three-dimensional (3-D). Covers the application for 3-D FE methods and an approximate procedure called multicomponent methods. Includes the application to a number of problems such as dams, slopes, piles, retaining (reinforced earth) structures, tunnels, pavements, seepage, consolidation, involving field measurements, shake table, and centrifuge tests. Discusses the effect of interface response on the behavior of geotechnical systems and liquefaction (considered as a microstructural instability). This text is useful to practitioners, students, teachers, and researchers who have backgrounds in geotechnical, structural engineering, and basic mechanics courses.

Software Engineering Trends and Techniques in Intelligent Systems Materials Research Forum LLC

Embedded and Networking Systems: Design, Software, and Implementation explores issues related to the design and synthesis of high-performance embedded computer systems and networks. The emphasis is on the fundamental concepts and analytical techniques that are applicable to a range of embedded and networking applications, rather than on specific embedded architectures, software development, or system-level integration. This system point of view guides designers in dealing with the trade-offs to optimize performance, power, cost, and other system-level non-functional requirements. The book brings together contributions by researchers and experts from around the world, offering a global view of the latest research and development in embedded and networking systems. Chapters highlight the evolution and trends in the field and supply a fundamental and analytical understanding of some underlying technologies. Topics include the co-design of embedded systems, code optimization for a variety of applications, power and performance trade-offs, benchmarks for evaluating embedded systems and their components, and mobile sensor network systems. The book also looks at novel applications such as mobile sensor systems and video networks. A comprehensive review of groundbreaking technology and applications, this book is a timely resource for system designers, researchers, and students interested in the possibilities of embedded and networking systems. It gives readers a better understanding of an emerging technology evolution that is helping drive telecommunications into the next decade.

Thin Layer Chromatography in Drug Analysis CRC Press

This book provides information on synthesis, properties, and applications of carbon nanomaterials. With novel

materials, such as graphene (atomically flat carbon) or carbon onions (carbon nanospheres), the family of carbon nanomaterials is rapidly growing. This book provides a state-of-the-art overview and in-depth analysis of the most important ca

Hematology-Oncology Therapy, Third Edition CRC Press

A ready-reference guide to the E-Commerce & Internet Business! Complete profiles of over 400 of the largest, most successful corporations in all facets of the Internet sector. Our industry analysis covers B2C, B2B, online financial services, online travel and Internet access and usage trends.

Who Owns Whom CRC Press

This solution manual is a companion book written by the authors of “Understanding Physics like a Nerd without Becoming One & More”. The character of the book solves the problems that were assigned at the end of each chapter. The authors believe their readers will be inspired by the tactics employed by Cassie to tackle the problems based on the lessons she learned from Professor James.

Embedded and Networking Systems CRC Press

With impending and burgeoning societal issues affecting both developed and emerging nations, the global engineering community has a responsibility and an opportunity to truly make a difference and contribute. The papers in this collection address what materials and resources are integral to meeting basic societal sustainability needs in critical areas of energy, transportation, housing, and recycling. Contributions focus on the engineering answers for cost-effective, sustainable pathways; the strategies for effective use of engineering solutions; and the role of the global engineering community. Authors share perspectives on the major engineering challenges that face our world today; identify, discuss, and prioritize engineering solution needs; and establish how these fit into developing global-demand pressures for materials and human resources.

Introduction to the Physical Chemistry of Foods Plunkett Research, Ltd.

Surface tension provides a thermodynamic avenue for analyzing systems in equilibrium and formulating phenomenological explanations for the behavior of constituent molecules in the surface region. While there are extensive experimental observations and established ideas regarding desorption of ions from the surfaces of aqueous salt solutions, a more successful discussion of the theory has recently emerged, which allows the quantitative calculation of the distribution of ions in the surface region. *Surface Tension and Related Thermodynamic Quantities of Aqueous Electrolyte Solutions* provides a detailed and systematic analysis of the properties of ions at the air/water interface. Unifying older and newer theories and measurements, this book emphasizes the contributions of simple ions to surface tension behavior, and the practical consequences. It begins with a general discussion on Gibbs surface thermodynamics, offering a guide to his theoretical insight and formulation of the boundary between fluids. The text then discusses the thermodynamic formulae that are useful for practical experimental work in the analysis of fluid/fluid interfaces. Chapters cover surface tension of pure water at air/water and air/oil interfaces, surface tension of solutions and the thermodynamic quantities associated with the adsorption and desorption of solutes, and surface tension of simple salt solutions. They also address adsorption of ions at the air/water interface, surface tension of solutions and the effect of temperature, adsorption from mixed electrolyte solutions, and thermodynamic properties of zwitterionic amino acids in the surface region. Focusing on the thermodynamic properties of ions at air/fluid interfaces, this book gives scientists a quantitative, rigorous, and objectively experimental methodology they can employ in their research.

CQ Springer

Introduction to the Physical Chemistry of Foods provides an easy-to-understand text that encompasses the basic principles of physical chemistry and their relationship to foods and their

processing. Based on the author's years of teaching and research experience in the physical chemistry of food, this book offers the necessary depth of information and mathematical bases presented in a clear manner for individuals with minimal physical chemistry background. The text begins with basic physical chemistry concepts, building a foundation of knowledge so readers can then grasp the physical chemistry of food, including processes such as crystallization, melting, distillation, blanching, and homogenization as well as rheology and emulsion and foam stability. The chapters cover thermodynamic systems, temperature, and ideal gases versus real gases; chemical thermodynamics and the behavior of liquids and solids, along with phase transitions; and the thermodynamics of small molecule and macromolecule dispersions and solutions. The text describes surface activity, interfaces, and adsorption of molecules. Attention is paid to surface active materials, with a focus on self-assembled and colloidal structures. Emulsions and foams are covered in a separate chapter. The book also introduces some of the main macroscopic manifestations of colloidal (and other) interactions in terms of rheology. Finally, the author describes chemical kinetics, including enzyme kinetics, which is vital to food science. This book provides a concise, readable account of the physical chemistry of foods, from basic thermodynamics to a range of applied topics, for students, scientists, and engineers with an interest in food science.

U.S. Department of Transportation Federal Motor Carrier Safety Administration Register CRC Press

This book is a survey on the theoretical as well as experimental results on nanostructures in biological systems. It shows how a unifying approach starting from single-particle energy, deriving free energy of the system and determining the equilibrium by minimizing the free energy, can be applied to describe electrical and elastic phenomena. It hel

The Essentials of Material Science and Technology for Engineers CRC Press

Used routinely in drug control laboratories, forensic laboratories, and as a research tool, thin layer chromatography (TLC) plays an important role in pharmaceutical drug analyses. It requires less complicated or expensive equipment than other techniques, and has the ability to be performed under field conditions. Filling the need for an up-to-date, complete reference, *Thin Layer Chromatography in Drug Analysis* covers the most important methods in pharmaceutical applications of TLC, namely, analysis of bulk drug material and pharmaceutical formulations, degradation studies, analysis of biological samples, optimization of the separation of drug classes, and lipophilicity estimation. The book is divided into two parts. Part I is devoted to general topics related to TLC in the context of drug analysis, including the chemical basis of TLC, sample preparation, the optimization of layers and mobile phases, detection and quantification, analysis of ionic compounds, and separation and analysis of chiral substances. The text addresses the newest advances in TLC instrumentation, two-dimensional TLC, quantification by slit scanning densitometry and image analysis, statistical processing of data, and various detection and identification methods. It also describes the use of TLC for solving a key issue in the drug market—the presence of substandard and counterfeit pharmaceutical products. Part II provides an in-depth overview of a wide range of TLC applications for separation and analysis of particular drug groups. Each chapter contains an introduction about the structures and medicinal actions of the described substances and a literature review of their TLC analysis. A useful resource for chromatographers, pharmacists, analytical chemists, students, and R&D, clinical, and forensic laboratories, this book can be utilized as a manual, reference, and teaching source.