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Convective Heat Transfer, Third Edition Learning Express Llc

Wastewater represents an alternative to freshwater if it can be treated successfully for re-use applications. Promising techniques involve photocatalysis, photodegradation, adsorption, bioreactors, nanocomposites, nanofiltration and membranes. Keywords: Wastewater Treatment, Biohydrogen Production, Bioethanol Production, Biological Wastewater, Carbon Nanotubes, Dairy Wastewater, Graphene-based Nanocomposites, Hormones in Wastewater, Malachite Green Removal, Membrane Bioreactors, Nanocomposites, Nanofiltration, Nanomembranes, Nanotubes, Organic Pollutants, Pesticides Removal, Photocatalysis, Photodegradation, Reversed Osmosis, Textile Wastewater.

CRC Press

Alcohol fuel cells are very attractive as power sources for mobile and portable applications. As they convert the chemical energy of fuels into electricity, much recent research is directed at developing suitable and efficient catalysts for the process. The present book focuses on pertinent types of nanomaterial-based catalysts, membranes and supports.

Strategic Portfolio Analysis: A New Market Opportunity for eAppeals LLC CRC Press

This book presents the latest developments and applications of micromechanics and nanomechanics. It particularly focuses on some recent applications and impact areas of micromechanics and nanomechanics that have not been discussed in traditional micromechanics and nanomechanics books on metamaterials, micromechanics of ferroelectric/piezoelectric, electromagnetic materials, micromechanics of interface, size effects and strain gradient theories, computational and experimental nanomechanics, multiscale simulations and theories, soft matter composites, and computational homogenization theory. This book covers analytical, experimental, as well as computational and numerical approaches in depth.

Engineering Solutions for Sustainability Courier Corporation

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.

Surface Tension and Related Thermodynamic Quantities of Aqueous Electrolyte Solutions Springer Science & Business Media

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.

Annual Book of ASTM Standards John Wiley & Sons

This self-contained monograph presents extensions of the Moser–Bangert approach that include solutions of a family of nonlinear elliptic PDEs on Rn and an Allen–Cahn PDE model of phase transitions. After recalling the relevant Moser–Bangert results, Extensions of Moser–Bangert Theory pursues the rich structure of the set of solutions of a simpler model case, expanding upon the studies of Moser and Bangert to include solutions that merely have local minimality properties. The work is intended for mathematicians who specialize in partial differential equations and may also be used as a text for a graduate topics course in PDEs.

Thin Layer Chromatography in Drug Analysis Routledge

This book provides information on the techniques needed to analyze foods in laboratory experiments. All topics covered include information on the basic principles, procedures, advantages, limitations, and applications. This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry. General information is provided on regulations, standards, labeling, sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods. Large, expanded sections on spectroscopy and chromatography also are included. Other methods and instrumentation such as thermal analysis, ion-selective electrodes, enzymes, and immunoassays are covered from the perspective of their use in the analysis of foods. A website with related teaching materials is accessible to instructors who adopt the textbook.

Fluctuation Theory of Solutions CRC Press

Inhaltsangabe:Zusammenfassung: Die vorliegende Arbeit wurde zum grössten Teil in den USA erstellt. Der Autor hatte über einen Studentenaustausch und ein Praktikum in Miami/USA einen Kontakt zu einem Start-Up-Unternehmen aufgebaut, mit dem zusammen er schliesslich seine Diplomarbeit erarbeitete. Unterstützt wurde er dabei massgeblich von Frau Prof. Dr. Nickerson von der Barry University in Miami, einer Partneruniversität der GSO FH Nürnberg, zu der intensivste Beziehungen bestehen. Das Ziel der Arbeit bestand darin, aufbauend auf das erfolgreiche Business Modell der Firma eAppeals LLC neue Geschäftsfelder in Europa zu identifizieren und zu bewerten. Dazu war es erforderlich, Erfolgsgrundlagen der Firma in den USA zu untersuchen, die Übertragbarkeit der spezifischen Lösungen auf anderen Anwendungen zu überprüfen und schliesslich neue Märkte zu finden und zu vergleichen. Der Verfasser benutzte zu letzterem eine spezifische Methode, nämlich die sog. „Strategische Portfolio Analyse“. Die Struktur der Arbeit ist sehr gut: nach Einführung gibt der Autor einen Überblick über relevante Literaturansätze zum Thema „Business Plan“ (Kap. 2). Anschliessend entwickelt er in Kap. 3 die zugrunde liegende Idee (Kap.3), beschreibt die Firma (Kap. 4) und entwirft dann die methodische Vorgehensweise (Kap. 5). Die Hauptteile der Arbeit sind sodann die Marktanalyse bzw. die Suche nach neuen strategischen Geschäftsfeldern (Kap. 6) und schliesslich die Strategische Portfolio Methode (Kap. 7). Die Arbeit überzeugt insgesamt durch ihre kreative und auch gründliche Vorgehensweise. Der Verfasser hat sich insbesondere in den empirischen Teilen tief in die anspruchsvolle Materie hineingearbeitet. Juristische, technische und organisatorische Aspekte werden detailliert untersucht. Die Marktanalyse stützt sich auf eine sehr gute Datenbasis mit aktuellsten Zahlen. Besonders gelungen ist der Teil der Strategischen Portfolioanalyse, in dem der Autor auf ein 8-köpfiges Experten-Team zurückgreift. Diese Experten mit verschiedensten beruflichen Hintergründen bilden eine starke Kompetenz-Gruppe, die durchaus das Know-how und die Erfahrung hat, die gefundenen Märkte zu bewerten. Es ist zu hoffen, dass die gefundenen Ergebnisse zu einer Realisierung führen. Eine gute Grundlage für den Markteinstieg wurde jedenfalls mit dieser Diplomarbeit gelegt. Abstract: Establishing something new, working towards a vision and following a path of independence and uniqueness all describe the [...]

Tiny Plants Springer Science & Business Media

Longing to nurture your houseplant addiction without cramping your space or style? If you can't squeeze another giant leafy friend onto your plant shelf, author Leslie Halleck is here to inform you that tiny is the new BIG! In Tiny Plants, you’ll discover a fascinating array of perfectly petite houseplants you can collect and grow—in a minimal amount of space. Yes, tiny plants are the ideal solution for plant keepers who don’t have much space, but even if you’ve got all the room in the world, their adorableness is reason alone to grow these mini wonders. These are the eternal puppies, kittens, and babies of the plant world—they never grow out of their cuteness because their genetics keep them itty-bitty for their entire lives. Beyond a few small succulents, most houseplant parents

aren’t aware of the extensive array of tiny plants they can collect and display on windowsills, on tables and desks, and in terrariums. Prepare for cuteness overload with: Profiles of dozens of miniature houseplants, including aquatic, carnivorous, flowering, succulent, and tropical varieties Detailed growing information and tips for success A fascinating look at the botany of miniature houseplant varieties Advice on how to stylishly display your tiny plant collection How-to lessons on the basics of propagating mini houseplants to share with friends Details on the best tiny houseplants for terrarium growing From the sweet blooms of micro orchids and the soft, smooth texture of lithops, to the frog foot–shaped foliage of the creeping oak fig and the tiny orbs of the string-of-pearls, you'll fall in love with these little curiosities before you can say #plantnerd.

Organic Pollutants in Wastewater II 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.

Advanced Materials Interfaces Official Gazette of the United States Patent and Trademark OfficeEngineering Solutions for Sustainability

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.

Official Gazette of the United States Patent and Trademark Office CRC Press

This book gives a sufficient grounding in mechanics for engineers to tackle a significant range of problems encountered in the design and specification of simple structures and machines. It also provides an excellent background for students wishing to progress to more advanced studies in three-dimensional mechanics.

Methods of Analytical Dynamics Springer

"Electrostatic Precipitation" includes selected papers presented at the 11th International Conference on Electrostatic Precipitation. It presents the newest developments in electrostatic precipitation, flue gas desulphurization (FGD), selective catalytic reduction (SCR), and non-thermal plasma techniques for multi-pollutants emission control. Almost all outstanding scientists and engineers world-wide in the field will report their on-going researches. The book will be a useful reference for scientists and engineers to keep abreast of the latest developments in environmental science and engineering.

U.S. Department of Transportation Federal Motor Carrier Safety Administration Register Materials Research Forum LLC

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 theoretical examinations of the nature of software design and particular design problems, critically assesses the processes and practices that designers follow, presents in-depth accounts of key supporting elements of design, and explores the role of human interaction in software design. With highly interdisciplinary contributions that together provide a unique perspective on software development, this book helps readers understand how software design is performed today and encourages the current community of researchers to push the field forward.

Chemistry Success in 20 Minutes a Day 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 pleparation, 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.

Rarefied Gas Dynamics Springer Science & Business Media

The classical restricted problem of three bodies is of fundamental importance for its applications to astronomy and space navigation, and also as a simple model of a non-integrable Hamiltonian dynamical system. A central role is played by periodic orbits, of which a large number have been computed numerically. In this book an attempt is made to explain and organize this material through a systematic study of generating families, which are the limits of families of periodic orbits when the mass ratio of the two main bodies becomes vanishingly small. The most critical part is the study of bifurcations, where several families come together and it is necessary to determine how individual branches are joined. Many different cases must be distinguished and studied separately. Detailed recipes are given. Their use is illustrated by determining a number of generating families, associated with natural families of the restricted problem, and comparing them with numerical computations in the Earth-Moon and Sun-Jupiter case.

Handbook of Micromechanics and Nanomechanics CRC Press

The six years that have passed since the publication of the first edition have brought significant advances in both biofilm research and biofilm engineering, which have matured to the extent that biofilm-based technologies are now being designed and implemented. As a result, many chapters have been updated and expanded with the addition of sections

Multilingual Computing & Technology John Wiley & Sons

Written especially for nurses caring for patients with cancer, the 2014 Oncology Nursing Drug Handbook uniquely expresses drug therapy in terms of the nursing process: nursing diagnoses, etiologies of toxicities, and key points for nursing assessment, intervention, and evaluation. Updated annually, this essential reference provides valuable information on effective symptom management, patient education, and chemotherapy administration.

Plunkett's E-Commerce & Internet Business Almanac 2006 Plunkett Research, Ltd.

Intended for readers who have taken a basic heat transfer course and have a basic knowledge of thermodynamics, heat transfer, fluid mechanics, and differential equations, Convective Heat Transfer, Third Edition provides an overview of phenomenological convective heat transfer. This book combines applications of engineering with the basic concepts of convection. It offers a clear and balanced presentation of essential topics using both traditional and numerical methods. The text addresses emerging science and technology matters, and highlights biomedical applications and energy technologies. What’s New in the Third Edition: Includes updated chapters and two new chapters on heat transfer in microchannels and heat transfer with nanofluids Expands problem sets and introduces new correlations and solved examples Provides more coverage of numerical/computer methods The third edition details the new research areas of heat transfer in microchannels and the enhancement of convective heat transfer with nanofluids. The text includes the physical mechanisms of convective heat transfer phenomena, exact or approximate solution methods, and solutions under various conditions, as well as the derivation of the basic equations of convective heat transfer and their solutions. A complete solutions manual and figure slides are also available for adopting professors. Convective Heat Transfer, Third Edition is an ideal reference for advanced research or coursework in heat transfer, and as a textbook for senior/graduate students majoring in mechanical engineering and relevant engineering courses.

Non-Conventional Materials and Technologies CRC Press

The thermal use of the shallow subsurface is increasingly being promoted and implemented as one of many promising measures for saving energy. A series of questions arises concerning the design and management of underground and groundwater heat extraction systems, such as the sharing of the thermal resource and the assessment of its long-term potential. For the proper design of thermal systems it is necessary to assess their impact on underground and groundwater temperatures. Thermal Use of Shallow Groundwater introduces the theoretical fundamentals of heat transport in groundwater systems, and discusses the essential thermal

properties. It presents a complete overview of analytical and numerical subsurface heat transport modeling, providing a series of mathematical tools and simulation models based on analytical and numerical solutions of the heat transport equation. It is illustrated with case studies from Austria, Germany, and Switzerland of urban thermal energy use, and heat storage and cooling. This book gives a complete set of analytical solutions together with MATLAB® computer codes ready for immediate application or design. It offers a comprehensive overview of the state of the art of analytical and numerical subsurface heat transport modeling for students in civil or environmental engineering, engineering geology, and hydrogeology, and also serves as a reference for industry professionals.