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Extensions of Moser – Bangert Theory Springer
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.

Microbial Fuel Cells 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.

Generating Families in the Restricted Three-Body Problem 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.

Official Gazette of the United States Patent and Trademark Office Jones & Bartlett Publishers

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 carbon nanomaterials.

Try Us Springer

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.

Software Engineering Trends and Techniques in Intelligent Systems diplom.de

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.

Engineering Solutions for Sustainability Elsevier

This self-contained monograph presents extensions of the Moser – Bangert approach that include solutions of a family of nonlinear elliptic PDEs on R^n 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 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.

2014 Oncology Nursing Drug Handbook 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 Markteintritt 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 [...] Probability and Stochastic Processes CRC Press

A list of U.S. importers and the products they import. The main company listing is geographic by state while products are listed by Harmonized Commodity Codes. There are also alphabetical company and product indexes.

Plunkett's E-commerce & Internet Business Almanac 2006 McGraw Hill Professional

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.

Hematology - Oncology Therapy Plunkett Research, Ltd.

ZnO and its hybrid nanostructures have unique optical, physical and chemical properties. The book covers recent trends in processing techniques and applications. Topics include solar cells, photo-voltaic devices, fuel cells, uv filters, lasers, light-emitting diodes, photo-detectors, spin-tronic devices, magnetic semiconductors, nano-generators, piezotronics, photo-catalytic applications against harmful organic pollutants like dyes, heavy metals, antibiotics, and sensors such as bio sensors, chemical sensors, gas sensors. Keywords: ZnO, Nano ZnO, Point Defects, Magnetic Semiconductors, Hybrid Nanostructures, Cell Applications, Nanoadsorbant for Heavy Metal Removals, Diagnostics, ZnO Nano-Carriers, ZnO Thin Films Fabrication.

Mechanical Impact Dynamics Materials Research Forum LLC

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.

Self-similar Solutions of Nonlinear PDE Brach Engineering, LLC

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.

Introduction to the Physical Chemistry of Foods Springer Science & Business Media

Encompassing formalism and structure in analytical dynamics, this graduate-level text discusses fundamentals of Newtonian and analytical mechanics, rigid body dynamics, problems in celestial mechanics and spacecraft dynamics, more. 1970 edition.

Industrial Air Quality and Ventilation John Wiley & Sons

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. **ZnO and Their Hybrid Nano-Structures** Materials Research Forum 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 integrated devices. It is therefore of the utmost urgency to focus on 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 Designers in Action Materials Research Forum LLC
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.

Systems Engineering Mathematics McGraw Hill Professional
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.

Convective Heat Transfer, Third Edition CRC Press
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