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Salt Stress, Microbes, and Plant Interactions: Causes and Solution **Process Safety Calculations Adaptive Intelligence** *Proceedings, "WASCOM 99" Solvents and Solutions: Structure and Properties Recent Trends in Antifungal Agents and Antifungal Therapy* Practical Guide to SAP HANA and Big Data Analytics *Wombs in Labor Handbook of Thermoset Plastics* Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Summary of Ellen Vora's The Anatomy of Anxiety **Journal of the Indian Chemical Society From Sources to Solution Architecting Solutions with SAP Business Technology Platform** Proceedings: Oil **Solutions of Nonlinear Differential Equations** **Aws Certified Solutions Architect - Professional Cumulated Index Medicus** *The Continuing Debate Over Depreciation, Capital and Income (RLE Accounting)* **The apparel industry and codes of conduct : a solution to the international child labor problem?** *Multiple Solutions Of Boundary Value Problems: A Variational Approach* **Fog Computing for Healthcare 4.0 Environments Feminist Futures The Science behind the COVID Pandemic and Healthcare Technology Solutions** **Solutions of Nonlinear Schrödinger Systems Electrochemical and Spectroelectrochemical Studies of Some Coordination Compounds in High Oxidation States Smart City Emergence Fog Data Analytics for IoT Applications Probabilistic Data Structures for Blockchain-Based Internet of Things Applications Chemical Engineering Numerical Solution of Stochastic Differential Equations with Jumps in Finance Official Gazette of the United States Patent and Trademark Office Internet of Things and Big Data Analytics Toward Next-Generation Intelligence Statistics Index of Patents Issued from the United States Patent Office Index of Patents Issued from the United States Patent and Trademark Office** *High-dimensional Manifold Topology High-Dimensional Manifold Topology* **Comprehensive English Grammar & Composition Polyimides and other high temperature polymers**

Fog Data Analytics for IoT Applications Jul 07 2020 This book discusses the unique nature and complexity of fog data analytics (FDA) and develops a comprehensive taxonomy abstracted into a process model. The exponential increase in sensors and smart gadgets (collectively referred as smart devices or Internet of things (IoT) devices) has generated significant amount of heterogeneous and multimodal data, known as big data. To deal with this big data, we require efficient and effective solutions, such as data mining, data analytics and reduction to be deployed at the edge of fog devices on a cloud. Current research and development efforts generally focus on big data analytics and overlook the difficulty of facilitating fog data analytics (FDA). This book presents a model that

addresses various research challenges, such as accessibility, scalability, fog nodes communication, nodal collaboration, heterogeneity, reliability, and quality of service (QoS) requirements, and includes case studies demonstrating its implementation. Focusing on FDA in IoT and requirements related to Industry 4.0, it also covers all aspects required to manage the complexity of FDA for IoT applications and also develops a comprehensive taxonomy.

Aws Certified Solutions Architect - Professional Jun 17 2021 AWS Certified Solutions Architect - Professional is considered one of the top certifications in the world and there have been a few discrepancies due to the lack of a well-defined study guide which can help individuals to prepare for the certification. The book, based on the famous AWS Solutions Architect - Professional video course by Zeal, brings the much-needed step by step guide, followed by a well-defined learning process and exam preparation quizzes which will help you prepare for this challenging certification. With the detailed preparation guide and instructor support via email, join us in the journey to be an AWS Certified Solutions Architect - Professional.

Index of Patents Issued from the United States Patent Office Nov 30 2019
Fog Computing for Healthcare 4.0 Environments Jan 13 2021 This book provides an analysis of the role of fog computing, cloud computing, and Internet of Things in providing uninterrupted context-aware services as they relate to Healthcare 4.0. The book considers a three-layer patient-driven healthcare architecture for real-time data collection, processing, and transmission. It gives insight to the readers for the applicability of fog devices and gateways in Healthcare 4.0 environments for current and future applications. It also considers aspects required to manage the complexity of fog computing for Healthcare 4.0 and also develops a comprehensive taxonomy.

Salt Stress, Microbes, and Plant Interactions: Causes and Solution Nov 03 2022 This book offers an overview of salt stress, which has a devastating effect on the yields of various agricultural crops around the globe. Excessive salts in soil reduce the availability of water, inhibit metabolic processes, and affect nutrient composition, osmotic balance, and hydraulic conductivity. Plants have developed a number of tolerance mechanisms, such as various compatible solutes, polyamines, reactive oxygen species and antioxidant defense mechanisms, ion transport and compartmentalization of injurious ions. The exploitation of genetic variation, use of plant hormones, mineral nutrients, soil microbe interactions, and other mechanical practices are of prime importance in agriculture, and as such have been the subject of multidisciplinary research. Covering both theoretical and practical aspects, the book provides essential physiological, ecological, biochemical, environmental and molecular information as well as perspectives for future research. It is a valuable resource for students, teachers and researchers and anyone interested in agronomy, ecology, stress physiology, environmental science, crop science and molecular biology.

From Sources to Solution Oct 22 2021 Featuring the theme, From Sources to Solution, this book is based on the research papers presented during the International Conference on Environmental Forensics 2013. It covers multi-disciplinary areas of environmental forensics featuring major themes:

characterization, assessment, and monitoring; new approach, rapid assessment, and analytical techniques; pollution control technology; environmental health risk assessment; and policy, governance and management. It present information for researchers from the science and social sciences disciplines and contribute to the advancement of Environmental Forensics. It also aims at evaluating the environmental damages as the result of indiscriminating discharge of toxic environmental pollutants.

Solvents and Solutions: Structure and Properties Jun 29 2022 A UNIQUE BOOK ON THE PRESENT STATUS OF SOLVENTS AND SOLUTIONS WITH IMPORTANT PROBLEMS RELATED TO THEIR STRUCTURE AND PROPERTIES The literature on the properties of solvents and solutions used in academic research and in a wide range of industries has grown enormously during the last four decades, and is scattered in different specialized journals. *Solvents and Solutions* is a groundbreaking text that offers a systematic compilation of important problems related to selected properties of solvents and solutions based on the literature published so far. The author places emphasis on explaining the basic concepts involved in understanding the properties and behavior of various solvents and solutions of electrolytes and nonelectrolytes in a consistent manner. After a description of the general characteristics of structure of solvents and solutions and the solubility of electrolytes and nonelectrolytes under normal temperature and pressure conditions, the book first deals with different aspects of the density and the refractive index of solvents and dilute as well as concentrated solutions, and finally with the transport (i.e. viscosity and electric conductivity) and thermal properties of solvents and solutions. *Solvents and solutions* is the first text devoted to the description and discussion of their properties since the publication of a monograph on the physical properties of aqueous electrolyte solutions more than three decades ago. The main features of this book are: Reflects developments in the investigation of solvents and solutions during the last three decades. Outlines basic concepts involved in understanding the properties and behavior of solvents and solutions. Describes and discusses different properties of ionic liquids as solvents and the behavior of their mixtures with other commonly used solvents. Contents of different chapters are not only self-contained but the contents are practically independent of each other. Written as a practical guide for researchers who are looking for an uptodate overview of the physical and transport properties of solvents and solutions, and as a reference source for workers in chemical industries and related fields and for graduate students of chemical engineering and physical chemistry.

Process Safety Calculations Oct 02 2022 *Process Safety Calculations, Second Edition* remains to be an essential guide for students and practitioners in process safety engineering who are working on calculating and predicting risks and consequences. The book focuses on calculation procedures based on basic chemistry, thermodynamics, fluid dynamics, conservation equations, kinetics and practical models. It provides helpful calculations to demonstrate compliance with regulations and standards, such as Seveso directive(s)/COMAH, CLP regulation, ATEX directives, PED directives, REACH regulation, OSHA/NIOSH and UK ALARP, along with risk and consequence assessment, stoichiometry, thermodynamics,

stress analysis and fluid-dynamics. This fully revised, updated and expanded second edition follows the same organization as the first, including the original three main parts, Fundamentals, Consequence Assessment and Quantitative Risk Assessment. However, the latter part is significantly expanded, including an appendix consisting of five fundamental thematic areas belonging to the risk assessment framework, including in-depth calculations methodologies for some fundamental monothematic macro-areas of process safety. Revised, updated and expanded new edition that includes newly developing areas of process safety that are relevant to QRA Provides engineering fundamentals to enable readers to properly approach the subject of process safety Includes a remarkable and broad numbers of calculation examples, which are completely resolved and fully explained Develops the QRA subject, consistently with the methodology applied in the big projects

High-Dimensional Manifold Topology Aug 27 2019 Contents: A Foliated Squeezing Theorem for Geometric Modules (A Bartels et al.)Equivariant Cellular Homology and Its Applications (B Chorny)Remarks on a Conjecture of Gromov and Lawson (W Dwyer et al.)Chain Complex Invariants for Group Actions (L E Jones)The Ore Condition, Affiliated Operators, and the Lamplighter Group (P A Linnell et al.)The Surgery Exact Sequence Revisited (E K Pedersen)K-theory for Proper Smooth Actions of Totally Disconnected Groups (J Sauer)Geometric Chain Homotopy Equivalences between Novikov Complexes (D Schütz)and other papers Readership: Graduate students and researchers in geometry and topology. Keywords:High-Dimensional Manifold Topology;Operator Algebras;K-Theory;L-Theory;Foliated Control Theory

Summary of Ellen Vora's The Anatomy of Anxiety Dec 24 2021 Please note: This is a companion version & not the original book. Sample Book Insights: #1 We are in an unprecedented global crisis when it comes to mental health. An estimated one out of every nine people, or eight hundred million people, suffer from a mental health disorder, the most common of which is anxiety. #2 Anxiety has been recognized as far back as 45 BC, when the Roman philosopher Marcus Tullius Cicero wrote in the Tusculan Disputations, as translated from the Latin, Affliction, worry and anxiety are called disorders, on account of the analogy between a troubled mind and a diseased body. #3 I have found that giving a diagnostic label can become a straitjacket, narrowly defining people and profoundly shaping their life narratives. I am more interested in exploring the particulars of each patient's life and habits to start them down a path to recovery. #4 There is a distinction between false and true anxiety. False anxiety is the body communicating a physiological imbalance, whereas true anxiety is the body communicating an essential message about our lives. In false anxiety, the stress response transmits signals up to our brain telling us something is not right.

The Continuing Debate Over Depreciation, Capital and Income (RLE Accounting) Apr 15 2021 Beginning with first principles, then discussing the origin and evolution of the debate over depreciation, capital and income, several related topics are addressed in this volume originally published in 1993. These include the allocation problem, interest rate approximations, issues concerning financial reporting and analysis and the meaning and economic impact of 'accounting error'.

The underlying themes concern the importance of history and the need for an appreciation of basic concepts and relationships in accounting

Statistics Jan 01 2020 Originally published in 1986, this book consists of 100 problems in probability and statistics, together with solutions and, most importantly, extensive notes on the solutions. The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics. At this level, straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used, and possible alternatives. The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves. The notes enable the reader to discover relationships between various statistical techniques, and provide the confidence needed to tackle new problems. Contents: Probability and Random Variables:ProbabilityRandom VariablesProbability Distributions:Discrete DistributionsContinuous DistributionsSimulating Random VariablesData Summarisation and Goodness-of-Fit:Data SummarisationGoodness-of-FitInference:One Sample — Normal DistributionTwo Samples — Normal DistributionBinomial and Poisson DistributionsOther ProblemsAnalysis of Structured Data:Regression and CorrelationAnalysis of VarianceContingency TablesTime Series Readership: Students on introductory courses in probability and statistics, with a background in calculus. Keywords:Random Variables;Probability Distributions;Data Summarisation;Statistical Inference;Regression;CorrelationReviews:“What is most valuable about this book is the very high quality of the model solutions ... It is a problem book for those teaching or learning a first course in mathematical statistics ... This one is outstandingly good and highly recommended.”Goeff Cohen University of Edinburgh, Scotland “The authors of this useful book take the view that the ability to solve practical problems is fundamental to an understanding of statistical techniques ... The book is designed to be read alongside a standard text. I expect it is likely to be most useful to the teacher or to the able student forced to work largely alone.”David Green “This book not only provides a solution to each problem set but gives notes about that solution. These notes should help students to understand the reasoning behind the techniques used, so giving them confidence to deal with problems of a similar nature ... This book should prove a valuable addition to the library of students and teachers of statistics.”M J G Ansell Hatfield Polytechnic “The book consists of a series of examples, each followed by one or more alternative solutions and accompanying notes. The solutions themselves are useful models. The notes go one stage further and explain why particular techniques were chosen to solve each problem. This approach may help to overcome the common difficulty of deciding which method to choose when answering examination questions ... The book is easy to read and suitable for individual study.”Richard J Field “These notes provide fascinating insights into the process that experienced statisticians go through in order to solve a problem. Students (and maybe some instructors) will benefit greatly from going through the solutions and the notes in this book.”Gudmund R Iversen Swarthmore College “The approach of the authors is to improve a student's understanding of statistics, and to help students appreciate which techniques might be appropriate for any

problem."Zentralblatt MATH

Solutions of Nonlinear Schrödinger Systems Oct 10 2020 The existence and qualitative properties of nontrivial solutions for some important nonlinear Schrödinger systems have been studied in this thesis. For a well-known system arising from nonlinear optics and Bose-Einstein condensates (BEC), in the subcritical case, qualitative properties of ground state solutions, including an optimal parameter range for the existence, the uniqueness and asymptotic behaviors, have been investigated and the results could firstly partially answer open questions raised by Ambrosetti, Colorado and Sirakov. In the critical case, a systematical research on ground state solutions, including the existence, the nonexistence, the uniqueness and the phase separation phenomena of the limit profile has been presented, which seems to be the first contribution for BEC in the critical case. Furthermore, some quite different phenomena were also studied in a more general critical system. For the classical Brezis-Nirenberg critical exponent problem, the sharp energy estimate of least energy solutions in a ball has been investigated in this study. Finally, for Ambrosetti type linearly coupled Schrödinger equations with critical exponent, an optimal result on the existence and nonexistence of ground state solutions for different coupling constants was also obtained in this thesis. These results have many applications in Physics and PDEs.

Architecting Solutions with SAP Business Technology Platform Sep 20 2021 A practical handbook packed with expert advice on architectural considerations for designing solutions using SAP BTP to drive digital innovation Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Guide your customers with proven architectural strategies and considerations on SAP BTP Tackle challenges in building process and data integration across complex and hybrid landscapes Discover SAP BTP services, including visualizations, practical business scenarios, and more Book Description SAP BTP is the foundation of SAP's intelligent and sustainable enterprise vision for its customers. It's efficient, agile, and an enabler of innovation. It's technically robust, yet its superpower is its business centricity. If you're involved in building IT and business strategies, it's essential to familiarize yourself with SAP BTP to see the big picture for digitalization with SAP solutions. Similarly, if you have design responsibilities for enterprise solutions, learning SAP BTP is crucial to produce effective and complete architecture designs. This book teaches you about SAP BTP in five parts. First, you'll see how SAP BTP is positioned in the intelligent enterprise. In the second part, you'll learn the foundational elements of SAP BTP and find out how it operates. The next part covers integration architecture guidelines, integration strategy considerations, and integration styles with SAP's integration technologies. Later, you'll learn how to use application development capabilities to extend enterprise solutions for innovation and agility. This part also includes digital experience and process automation capabilities. The last part covers how SAP BTP can facilitate data-to-value use cases to produce actionable business insights. By the end of this SAP book, you'll be able to architect solutions using SAP BTP to deliver high business value. What you will learn Explore value propositions and business processes enabled by SAP's Intelligent and Sustainable Enterprise Understand SAP BTP's foundational elements, such as commercial and account

models Discover services that can be part of solution designs to fulfill non-functional requirements Get to grips with integration and extensibility services for building robust solutions Understand what SAP BTP offers for digital experience and process automation Explore data-to-value services that can help manage data and build analytics use cases Who this book is for This SAP guide is for technical architects, solutions architects, and enterprise architects working with SAP solutions to drive digital transformation and innovation with SAP BTP. Some IT background and an understanding of basic cloud concepts is assumed. Working knowledge of the SAP ecosystem will also be beneficial.

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence Jan 31 2020 This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

Proceedings, "WASCOM 99" Jul 31 2022 Mathematical problems concerning time evolution of solutions related to nonlinear systems modelling dynamics of continuous media are of great interest both in wave propagation and in stability problems. During the last few decades many striking developments have taken place, especially in connection with the effects of nonlinearity of the equations describing physical situations. The articles in this book have been written by reputable specialists in the field and represent a valuable contribution to its advancement. The topics are: discontinuity and shock waves; linear and nonlinear stability in fluid dynamics; kinetic theories and comparison with continuum models; propagation and non-equilibrium thermodynamics; exact solutions via group methods; numerical applications.

The apparel industry and codes of conduct : a solution to the international child labor problem? Mar 15 2021

Journal of the Indian Chemical Society Nov 22 2021

Smart City Emergence Aug 08 2020 Smart City Emergence: Cases from Around the World analyzes how smart cities are currently being conceptualized and implemented, examining the theoretical underpinnings and technologies that connect theory with tangible practice achievements. Using numerous cities from different regions around the globe, the book compares how smart cities of different sizes are evolving in different countries and continents. In addition, it examines the challenges cities face as they adopt the smart city concept, separating fact from fiction, with insights from scholars, government officials and vendors currently involved in smart city implementation. Utilizes a sound and systematic research methodology Includes a review of the latest research developments Contains, in each chapter, a brief summary of the case, an illustration of the theoretical context that lies behind the case, the case study itself, and conclusions showing learned outcomes Examines smart cities in relation to climate change, sustainability, natural disasters and community resiliency

Multiple Solutions Of Boundary Value Problems: A Variational Approach Feb 11 2021 Variational methods and their generalizations have been verified to be useful tools in proving the existence of solutions to a variety of boundary value problems for ordinary, impulsive, and partial differential equations as well as for difference equations. In this monograph, we look at how variational methods can be used in all these settings. In our first chapter, we gather the basic notions and fundamental theorems that will be applied in the remainder of this monograph. While many of these items are easily available in the literature, we gather them here both for the convenience of the reader and for the purpose of making this volume somewhat self-contained. Subsequent chapters deal with the Sturm-Liouville problems, multi-point boundary value problems, problems with impulses, partial differential equations, and difference equations. An extensive bibliography is also included.

Official Gazette of the United States Patent and Trademark Office Mar 03 2020

Cumulated Index Medicus May 17 2021

Chemical Engineering May 05 2020

Proceedings: Oil Aug 20 2021

Index of Patents Issued from the United States Patent and Trademark Office Oct 29 2019

Wombs in Labor Mar 27 2022 Surrogacy is India's new form of outsourcing, as couples from all over the world hire Indian women to bear their children for a fraction of the cost of surrogacy elsewhere with little to no government oversight or regulation. In the first detailed ethnography of India's surrogacy industry, Amrita Pande visits clinics and hostels and speaks with surrogates and their families, clients, doctors, brokers, and hostel matrons in order to shed light on this burgeoning business and the experiences of the laborers within it. From recruitment to training to delivery, Pande's research focuses on how reproduction meets production in surrogacy and how this reflects characteristics of India's larger labor system. Pande's interviews prove surrogates are more than victims of disciplinary power, and she examines the strategies they deploy to retain control over their bodies and reproductive futures. While some women are coerced into

the business by their families, others negotiate with clients and their clinics to gain access to technologies and networks otherwise closed to them. As surrogates, the women Pande meets get to know and make the most of advanced medical discoveries. They traverse borders and straddle relationships that test the boundaries of race, class, religion, and nationality. Those who focus on the inherent inequalities of India's surrogacy industry believe the practice should be either banned or strictly regulated. Pande instead advocates for a better understanding of this complex labor market, envisioning an international model of fair-trade surrogacy founded on openness and transparency in all business, medical, and emotional exchanges.

Feminist Futures Dec 12 2020 Straddling disciplines and continents, *Feminist Futures* interweaves scholarship and social activism to explore the evolving position of women in the South. Working at the intersection of cultural studies, critical development studies and feminist theory, the book's contributors articulate a radical and innovative framework for understanding the linkages between women, culture and development, applying it to issues ranging from sexuality and the gendered body to the environment, technology and the cultural politics of representation. This revised and updated edition brings together leading academics, as well as a new generation of activists and scholars, to provide a fresh perspective on the ways in which women in the South are transforming our understanding of development.

Polyimides and other high temperature polymers Jun 25 2019 Annotation Containing 32 peer-reviewed papers, this volume documents the proceedings of the international symposium of the same name (held under the aegis of the Materials Science and Technology Conferences) in December of 2001. Devoted to research into high-temperature polymers, the papers are organized into sections dealing with synthesis, properties, and bulk characterization in the first half and surface modification, interfacial or adhesion aspects, and applications in the second. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

Probabilistic Data Structures for Blockchain-Based Internet of Things Applications Jun 05 2020 This book covers theory and practical knowledge of Probabilistic data structures (PDS) and Blockchain (BC) concepts. It introduces the applicability of PDS in BC to technology practitioners and explains each PDS through code snippets and illustrative examples. Further, it provides references for the applications of PDS to BC along with implementation codes in python language for various PDS so that the readers can gain confidence using hands on experience. Organized into five sections, the book covers IoT technology, fundamental concepts of BC, PDS and algorithms used to estimate membership query, cardinality, similarity and frequency, usage of PDS in BC based IoT and so forth.

Handbook of Thermoset Plastics Feb 23 2022 *Handbook of Thermoset Plastics*, Fourth Edition provides complete coverage of the chemical processes, manufacturing techniques and design properties of each polymer, along with its applications. This new edition has been expanded to include the latest developments in the field, with new chapters on radiation curing, biological adhesives, vitrimers, and 3D printing. This detailed handbook considers the

practical implications of using thermoset plastics and the relationships between processing, properties and applications, as well as analyzing the strengths and weakness of different methods and applications. The aim of the book is to help the reader to make the right decision and take the correct action on the basis of informed analysis - avoiding the pitfalls the authors' experience has uncovered. In industry, the book supports engineers, scientists, manufacturers and R&D professionals working with plastics. The information included will also be of interest to researchers and advanced students in plastics engineering, polymer chemistry, adhesives and coatings. Offers a systematic approach, guiding the reader through chemistry, processing methods, properties and applications of thermosetting polymers Includes thorough updates that discuss current practice and the new developments on biopolymers, nanotechnology, 3D printing, radiation curing and biological adhesives Uses case studies to demonstrate how particular properties make different polymers suitable for different applications Covers end-use and safety considerations

Solutions of Nonlinear Differential Equations Jul 19 2021 Variational methods are very powerful techniques in nonlinear analysis and are extensively used in many disciplines of pure and applied mathematics (including ordinary and partial differential equations, mathematical physics, gauge theory, and geometrical analysis). In our first chapter, we gather the basic notions and fundamental theorems that will be applied throughout the chapters. While many of these items are easily available in the literature, we gather them here both for the convenience of the reader and for the purpose of making this volume somewhat self-contained. Subsequent chapters deal with how variational methods can be used in fourth-order problems, Kirchhoff problems, nonlinear field problems, gradient systems, and variable exponent problems. A very extensive bibliography is also included. Contents: Preface Some Notations and Conventions Preliminaries and Variational Principles Quasilinear Fourth-Order Problems Kirchhoff Problems Nonlinear Field Problems Gradient Systems Variable Exponent Problems Readership: Graduate students and researchers interested in variational methods.

Numerical Solution of Stochastic Differential Equations with Jumps in Finance Apr 03 2020 In financial and actuarial modeling and other areas of application, stochastic differential equations with jumps have been employed to describe the dynamics of various state variables. The numerical solution of such equations is more complex than that of those only driven by Wiener processes, described in Kloeden & Platen: Numerical Solution of Stochastic Differential Equations (1992). The present monograph builds on the above-mentioned work and provides an introduction to stochastic differential equations with jumps, in both theory and application, emphasizing the numerical methods needed to solve such equations. It presents many new results on higher-order methods for scenario and Monte Carlo simulation, including implicit, predictor corrector, extrapolation, Markov chain and variance reduction methods, stressing the importance of their numerical stability. Furthermore, it includes chapters on exact simulation, estimation and filtering. Besides serving as a basic text on quantitative methods, it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding. Finance is chosen as the area of

application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance. Moreover, the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and insurance beyond the standard risk-neutral approach. It requires undergraduate background in mathematical or quantitative methods, is accessible to a broad readership, including those who are only seeking numerical recipes, and includes exercises that help the reader develop a deeper understanding of the underlying mathematics.

High-dimensional Manifold Topology Sep 28 2019

Recent Trends in Antifungal Agents and Antifungal Therapy May 29 2022 Fungal infections have taken a new spectrum due to the increased incidence of multi-drug resistant fungal pathogens. Freedom of choice for drugs to treat fungal infections is also narrow because of lesser probability of discovering drugs that would bypass affecting human cells and target fungal cells producing fewer side effects in patients. An approach has gained prominence in research is to look for bioactive antifungal compounds from natural to synthetic sources. It is necessary to discover new classes of antifungals to control the recent emergence of multi-drug resistant fungal infections. This book proposed a details top to bottom outline of antifungal compounds derived naturally or synthetically. The details of their modifications or synthetic analogues have been described, helpful to understand the structure-activity relationship which leads to new compound development in antifungal chemotherapy. Each chapter begins with a comprehensive, top-bottom in-depth discussion of antifungal agents with updated bibliographic references. This compendium will serve as a companion not only for Scientists, Researchers, and Professors, Medical Practitioners but also a valuable reference text for the university students.

Practical Guide to SAP HANA and Big Data Analytics Apr 27 2022 In this book written for SAP BI, big data, and IT architects, the authors expertly provide clear recommendations for building modern analytics architectures running on SAP HANA technologies. Explore integration with big data frameworks and predictive analytics components. Obtain the tools you need to assess possible architecture scenarios and get guidelines for choosing the best option for your organization. Know your options for on-premise, in the cloud, and hybrid solutions. Readers will be guided through SAP BW/4HANA and SAP HANA native data warehouse scenarios, as well as field-tested integration options with big data platforms. Explore migration options and architecture best practices. Consider organizational and procedural changes resulting from the move to a new, up-to-date analytics architecture that supports your data-driven or data-informed organization. By using practical examples, tips, and screenshots, this book explores: - SAP HANA and SAP BW/4HANA architecture concepts - Predictive Analytics and Big Data component integration - Recommendations for a sustainable, future-proof analytics solutions - Organizational impact and change management

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Jan 25 2022 As technology continues to become more sophisticated, mimicking natural processes and phenomena also becomes more of a reality. Continued research in the field of natural computing enables an understanding of the world around us, in

addition to opportunities for man-made computing to mirror the natural processes and systems that have existed for centuries. **Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications** takes an interdisciplinary approach to the topic of natural computing, including emerging technologies being developed for the purpose of simulating natural phenomena, applications across industries, and the future outlook of biologically and nature-inspired technologies. Emphasizing critical research in a comprehensive multi-volume set, this publication is designed for use by IT professionals, researchers, and graduate students studying intelligent computing.

Comprehensive English Grammar & Composition Jul 27 2019 This is the must have book for success in competitive exams. The comprehensive English grammar and composition is very good book for thorough preparation for the competitive exams. The book covers the entire syllabus for gaining clear concepts in English. It is an excellent book for grammar practice and has many exercises and detailed explanation. The book is very nice and explanation is very simple and good. The book is very helpful for the beginners also since it gives detailed explanations of the different concepts of English grammar.

Adaptive Intelligence Sep 01 2022 High IQs don't improve the world. Adaptive intelligence does, because it prioritizes the common good over individual success.

The Science behind the COVID Pandemic and Healthcare Technology Solutions Nov 10 2020 This book offers a timely review of modern technologies for health, with a special emphasis on wireless and wearable technologies, GIS tools and machine learning methods for managing the impacts of pandemics. It describes new strategies for forecasting evolution of pandemics, optimizing contact tracing, and for detection and diagnosis of diseases, among others. Written by researchers and professionals with different backgrounds, this book offers a extensive information and a source of inspiration for physiologists, engineers, IT scientists and policy makers in the health and technology sector.

Electrochemical and Spectroelectrochemical Studies of Some Coordination Compounds in High Oxidation States Sep 08 2020