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*Canadian Journal of Soil Science* Dec 18 2019

*Numerical Methods* Aug 06 2021 Offers a comprehensive textbook for a course in numerical methods, numerical analysis and numerical techniques for undergraduate engineering students.

**TEXTBOOK ON OPTICAL FIBER COMMUNICATION AND ITS APPLICATIONS, THIRD EDITION** Feb 12 2022 The book, now in its third edition, is thoroughly revised and updated as per the new syllabi of Optical Fiber Communication of various universities. The material is well-presented and designed for undergraduate and postgraduate students pursuing courses in Electrical Engineering, and Electronics and Telecommunication Engineering. The book offers a completely accessible and in-depth knowledge of the principles and applications of optical fiber communication (OFC). It deals with materials, devices, components, and systems of OFC. The coverage includes key concepts such as properties of light, evolution and elements of OFC, its benefits, along with applications in optical LAN and communication links. The attenuation loss of different types, dispersion mechanism, photon sources (LED and lasers), detectors (PIN and avalanche), analog and digital transmitter and receiver systems, connectorization, OADM, and amplifiers are described. Built-up of long haul OFC links at 8 Mb/s and 2.5 Gb/s, and optical interface are explained with illustrations. It also contains solved numerical problems for better understanding of topics. **KEY FEATURES** • Includes optical fiber LAN for data centres and industries • Provides detail treatment of LED, semiconductor, lasers, Tx and Rx • Discusses all optical communications links and optical networks • Includes important questions with answers • Provides practice papers and model test papers

**Decision Analytics Applications in Industry** Feb 18 2020 This book presents a range of qualitative and quantitative analyses in areas such as cybersecurity, sustainability, multivariate analysis, customer satisfaction, parametric programming, software reliability growth modeling, and blockchain technology, to name but a few. It also highlights integrated methods and practices in the areas of machine learning and genetic algorithms. After discussing applications in supply chains and logistics, cloud computing, six sigma, production management, big data analysis, satellite imaging, game theory, biometric systems, quality, and system performance, the book examines the latest developments and breakthroughs in the field of science and technology, and provides novel problem-solving methods. The themes discussed in the book link contributions by researchers and practitioners from different branches of engineering and management, and hailing from around the globe. These contributions provide scholars with a platform to derive maximum utility in the area of analytics by subscribing to the idea of managing business through system sciences, operations, and management. Managers and decision-makers can learn a great deal from the respective chapters, which will help them devise their own business strategies and find real-world solutions to complex industrial problems.

**Cell Biology: Fundamentals and Applications** Aug 18 2022

**Fluid Mechanics and Its Applications** Oct 20 2022 Concept of fluid mechanics explained starting from simple flow phenomena. Level of mathematics kept low to emphasize phenomena itself. Rich experience of teaching utilized to avoid misunderstandings, over-generalizations and misapplications. Solved problems to highlight applications.

**Computer and Cyber Security** Mar 13 2022 This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

**Principles and Applications of Quantum Chemistry** Sep 26 2020 Principles and Applications of Quantum Chemistry offers clear and simple coverage based on the author's extensive teaching at advanced universities around the globe. Where needed, derivations are detailed in an easy-to-follow manner so that you will understand the physical and mathematical aspects of quantum chemistry and molecular electronic structure. Building on this foundation, this book then explores applications, using illustrative examples to demonstrate the use of quantum chemical tools in research problems. Each chapter also uses innovative problems and bibliographic references to guide you, and throughout the book chapters cover important advances in the field including: Density functional theory (DFT) and time-dependent DFT (TD-DFT), characterization of chemical reactions, prediction of molecular geometry, molecular electrostatic potential, and quantum theory of atoms in molecules. Simplified mathematical content and derivations for reader understanding Useful overview of advances in the field such as Density Functional Theory (DFT) and Time-Dependent DFT (TD-DFT) Accessible level for students and researchers interested in the use of quantum chemistry tools

**Legal Aspects of Business: Concepts and Applications, 2e** Dec 22 2022 This textbook introduces the Indian legal system and presents exhaustive discussion on laws which govern and regulate businesses. It focuses on the application of law based on which managers need to take decisions. It also maximizes its usefulness as textbook for business management students and managers through a huge number of cases and mini-case highlighting the legal issues of business entities. Aiming to provide the readers an understanding and knowledge of business-related laws, the book provides in-depth coverage of the law of contract and sale of goods, laws dealing with negotiable instruments, consumer rights, competition and also law regulating the incorporation and management of companies in India.

**Optimization with LINGO-18** Aug 26 2020 This book presents fundamental concepts of optimization problems and its real-world applications

in various fields. The core concepts of optimization, formulations and solution procedures of various real-world problems are provided in an easy-to-read manner. The unique feature of this book is that it presents unified knowledge of the modelling of real-world decision-making problems and provides the solution procedure using the appropriate optimization techniques. The book will help students, researchers, and faculty members to understand the need for optimization techniques for obtaining optimal solution for the decision-making problems. It provides a sound knowledge of modelling of real-world problems using optimization techniques. It is a valuable compendium of several optimization techniques for solving real-world application problems using optimization software LINGO. The book is useful for academicians, practitioners, students and researchers in the field of OR. It is written in simple language with a detailed explanation of the core concepts of optimization techniques. Readers of this book will understand the formulation of real-world problems and their solution procedures obtained using the appropriate optimization techniques.

**Soft Computing and Intelligent Systems** Jan 11 2022 The field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms. The subject is being called soft computing and computational intelligence. With acceptance of the research fundamentals in these important areas, the field is expanding into direct applications through engineering and systems science. This book covers the fundamentals of this emerging field, as well as direct applications and case studies. There is a need for practicing engineers, computer scientists, and system scientists to directly apply "fuzzy" engineering into a wide array of devices and systems.

**Gupta SQLWindows32** Mar 21 2020

*Mathematical Analysis, Approximation Theory and Their Applications* Apr 21 2020 Designed for graduate students, researchers, and engineers in mathematics, optimization, and economics, this self-contained volume presents theory, methods, and applications in mathematical analysis and approximation theory. Specific topics include: approximation of functions by linear positive operators with applications to computer aided geometric design, numerical analysis, optimization theory, and solutions of differential equations. Recent and significant developments in approximation theory, special functions and q-calculus along with their applications to mathematics, engineering, and social sciences are discussed and analyzed. Each chapter enriches the understanding of current research problems and theories in pure and applied research.

**Computer Application In Business** Apr 02 2021

**Research Methodology** Jan 31 2021

*Genome Editing in Plants* Oct 16 2019 *Genome Editing in Plants: Principles and Applications* addresses the information of genome editing starting from principles and historical aspects to the latest advancements in the field. As genome-editing technology has emerged as promising and cutting edge, researchers around the world have started producing original research outputs, which have significantly improved our current understanding and potential of this technology. The initial chapters of this book describe different genome-editing tools as well as their principles and applications. Other chapters are dedicated to the present status and future applications of genome-editing techniques in various crop improvement programmes. Some of the advanced applications of CRISPR/Cas tools, such as base editing and RNA detection, along with regulatory aspects of genome-edited crops are described in detail. This book serves as a valuable resource to researchers in the field of crop improvement; graduate and postgraduate students engaged in plant molecular biology and biotechnology; academicians; and policy makers. Key Features: Addresses topics associated with historical development and principles of genome-editing technology Addresses basic mechanisms operating under each genome-editing technology Addresses its application in plants to design crops as per the current and future demands Addresses the regulatory mechanisms of genome-edited crops

**Fluid Mechanics and Its Applications** Jun 16 2022

*Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development* Jun 23 2020 This book focuses on different algorithms and models related to AI, big data and IoT used for various domains. It enables the reader to have a broader and deeper understanding of several perspectives regarding the dynamics, challenges, and opportunities for sustainable development using artificial intelligence, big data and IoT. Applications of Artificial Intelligence, Big Data and Internet of Things (IoT) in Sustainable Development focuses on IT-based advancements in multidisciplinary fields such as healthcare, finance, bioinformatics, industrial automation, and environmental science. The authors discuss the key issues of security, management, and the realization of possible solutions to hurdles in sustainable development. The reader will master basic concepts and deep insights of various algorithms and models for various applications such as healthcare, finance, education, smart cities, smart cars, among others. Finally, the book will also examine the applications and implementation of big data IoT, AI strategies to facilitate the sustainable development goals set by the United Nations by 2030. This book is intended to help researchers, academics, and policymakers to analyze the challenges and future aspects for maintaining sustainable development through IoT, big data, and AI.

**Building Web Applications with Python and Neo4j** Oct 08 2021 Py2neo is a simple and pragmatic Python library that provides access to the popular graph database Neo4j via its RESTful web service interface. This brings with it a heavily refactored core, a cleaner API, better performance, and some new idioms. You will begin with licensing and installing Neo4j, learning the fundamentals of Cypher as a graph query language, and exploring Cypher optimizations. You will discover how to integrate with various Python frameworks such as Flask and its extensions: Py2neo, Neomodel, and Django. Finally, the deployment aspects of your Python-based Neo4j applications in a production environment is also covered. By sequentially working through the steps in each chapter, you will quickly learn and master the various implementation details and integrations of Python and Neo4j, helping you to develop your use cases more quickly.

*Fiber Optic Sensors* Dec 10 2021 The book is an introduction to the rapidly emerging field of fiber optic sensors that is having significant impact upon areas such as guidance and control, structural monitoring, process control, biotechnology, geographical information systems and medicine.

**Management Principles And Applications by R. C. Agrawal, Sanjay Gupta (eBook)** Mar 01 2021 An excellent book for commerce students appearing in competitive, professional and other examinations. 1. Management Concept : Meaning, Definitions and Need, 2. Managerial Functions, 3. Co-ordination : Meaning and Nature, 4. Evolution of Management Thought, 5. Management by Objectives (M.B.O.) , 6. Planning, 7. Types of Plans and Corporate Planning, 8. Environmental Analysis and Business Environment, 9. Decisions-Making, 10. Nature and Process of Organisation, 11. Span of Control and Centralisation and Decentralisation of Authority, 12. Authority and Delegation of Authority, 13. Organizations Structure and Forms of Organisation, 14. Staffing , 15. Motivation, 16. Leadership, 17. Communication, 18. Managerial Control, 19. Techniques of Control and Emerging Issues in Management.

*Statistics and Probability with Applications for Engineers and Scientists* May 15 2022 Introducing the tools of statistics and probability from the ground up An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work. *Statistics and Probability with Applications for Engineers and Scientists* walks readers through a wide range of popular statistical techniques, explaining step-by-step how to generate, analyze, and interpret data for diverse applications in engineering and the natural sciences. Unique among books of this kind, *Statistics and Probability with Applications for Engineers and Scientists* covers descriptive statistics first, then goes on to discuss the fundamentals of probability theory. Along with case studies, examples, and real-world data sets, the book incorporates clear instructions on how to use the statistical packages Minitab® and Microsoft® Office Excel® to analyze various data sets. The book also features: • Detailed discussions on sampling distributions, statistical estimation of population parameters, hypothesis testing, reliability theory, statistical quality control including Phase I and Phase II control charts, and process capability indices • A clear presentation of nonparametric methods and simple and multiple linear regression methods, as well as a brief discussion on logistic regression method • Comprehensive guidance on the

design of experiments, including randomized block designs, one- and two-way layout designs, Latin square designs, random effects and mixed effects models, factorial and fractional factorial designs, and response surface methodology • A companion website containing data sets for Minitab and Microsoft Office Excel, as well as JMP ® routines and results Assuming no background in probability and statistics, *Statistics and Probability with Applications for Engineers and Scientists* features a unique, yet tried-and-true, approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real-world data in engineering and the natural sciences.

**Management Principles And Applications** by R. C. Agrawal, Sanjay Gupta Nov 28 2020 An excellent book for commerce students appearing in competitive, professional and other examinations. 1. Management Concept : Meaning, Definitions and Need, 2. Managerial Functions, 3. Co-ordination : Meaning and Nature, 4. Evolution of Management Thought, 5. Management by Objectives (M.B.O.) , 6. Planning, 7. Types of Plans and Corporate Planning, 8. Environmental Analysis and Business Environment, 9. Decisions-Making, 10. Nature and Process of Organisation, 11. Span of Control and Centralisation and Decentralisation of Authority, 12. Authority and Delegation of Authority, 13. Organizations Structure and Forms of Organisation, 14. Staffing , 15. Motivation, 16. Leadership, 17. Communication, 18. Managerial Control, 19. Techniques of Control and Emerging Issues inManagement.

**Handbook of Beta Distribution and Its Applications** Jan 23 2023 A milestone in the published literature on the subject, this first-ever Handbook of Beta Distribution and Its Applications clearly enumerates the properties of beta distributions and related mathematical notions. It summarizes modern applications in a variety of fields, reviews up-and-coming progress from the front lines of statistical research and practice, and demonstrates the applicability of beta distributions in fields such as economics, quality control, soil science, and biomedicine. The book discusses the centrality of beta distributions in Bayesian inference, the beta-binomial model and applications of the beta-binomial distribution, and applications of Dirichlet integrals.

**Steel Rolling** May 03 2021 This book covers all aspects and elements of rolling technology in one volume with even the most technical jargon being communicated in an easy to understand language. The book is exhaustive as topics ranging from rolls, rolls cooling, roll turning, roll reclamation, investigation of roll breakage, roll management and roll bearing all have been dealt in detail as these constitute the most important element of production cost. A separate chapter has been dedicated to operational management of a rolling mill, which includes safety and inventory. Packaging of the finished products and modern operating mill practices and technologies are also discussed in detail. This book will be a useful tool for shop floor personnel and for all senior management operating in the rolling mill industry; it is also a must read for all polytechnic / engineering students of metallurgical / mechanical / process engineering. This book may also be useful as reference book for students/professionals of rolling technology. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

**Magnesium-based Nanocomposites** Jan 19 2020 "Magnesium-Based Nanocomposites: Advances and applications covers the most recent advances in the processing and properties of magnesium-based nanocomposites, a class of lightweight sustainable materials with the potential to be revolutionary energy-saving materials with a range of beneficial applications. It provides a complete picture of the materials, including their multi-faceted design and applications in technology, electronics, medicine, and the automotive and aerospace industries. The book will enable researchers and engineers, irrespective of their discipline, to better exploit the benefits of magnesium-based nanocomposites for multiple applications that can contribute significantly to the safe health of humans and the planet. It also acts as a guide for tailoring materials for targeted applications, and as useful supplementary reading for advanced courses on composites and nanocomposites." -- Prové de l'editor.

**Internet of Things Security** Sep 19 2022 The Internet of Things (IoT), with its technological advancements and massive innovations, is building the idea of inter-connectivity among everyday life objects. With an explosive growth in the number of Internet-connected devices, the implications of the idea of IoT on enterprises, individuals, and society are huge. IoT is getting attention from both academia and industry due to its powerful real-time applications that raise demands to understand the entire spectrum of the field. However, due to increasing security issues, safeguarding the IoT ecosystem has become an important concern. With devices and information becoming more exposed and leading to increased attack possibilities, adequate security measures are required to leverage the benefits of this emerging concept. *Internet of Things Security: Principles, Applications, Attacks, and Countermeasures* is an extensive source that aims at establishing an understanding of the core concepts of IoT among its readers and the challenges and corresponding countermeasures in the field. Key features: Containment of theoretical aspects, as well as recent empirical findings associated with the underlying technologies Exploration of various challenges and trade-offs associated with the field and approaches to ensure security, privacy, safety, and trust across its key elements Vision of exciting areas for future research in the field to enhance the overall productivity This book is suitable for industrial professionals and practitioners, researchers, faculty members, and students across universities who aim to carry out research and development in the field of IoT security.

**Bioenergy Research: Advances and Applications** Jun 04 2021 *Bioenergy Research: Advances and Applications* brings biology and engineering together to address the challenges of future energy needs. The book consolidates the most recent research on current technologies, concepts, and commercial developments in various types of widely used biofuels and integrated biorefineries, across the disciplines of biochemistry, biotechnology, phytochemistry, and microbiology. All the chapters in the book are derived from international scientific experts in their respective research areas. They provide you with clear and concise information on both standard and more recent bioenergy production methods, including hydrolysis and microbial fermentation. Chapters are also designed to facilitate early stage researchers, and enables you to easily grasp the concepts, methodologies and application of bioenergy technologies. Each chapter in the book describes the merits and drawbacks of each technology as well as its usefulness. The book provides information on recent approaches to graduates, post-graduates, researchers and practitioners studying and working in field of the bioenergy. It is an invaluable information resource on biomass-based biofuels for fundamental and applied research, catering to researchers in the areas of bio-hydrogen, bioethanol, bio-methane and biorefineries, and the use of microbial processes in the conversion of biomass into biofuels. Reviews all existing and promising technologies for production of advanced biofuels in addition to bioenergy policies and research funding Cutting-edge research concepts for biofuels production using biological and biochemical routes, including microbial fuel cells Includes production methods and conversion processes for all types of biofuels, including bioethanol and biohydrogen, and outlines the pros and cons of each

**ServiceNow Application Development** Jul 17 2022 Develop and extend efficient cloud-native applications with ServiceNow About This Book Build and customize your apps and workflows to suit your organization's requirements Perform in-depth application development from designing forms to writing business rules, client-scripts, and workflows Comprehensive guide to the end-to-end implementation of designing and extending apps with ServiceNow Who This Book Is For If you are a ServiceNow administrator and developer and need to build and customize your service management solution (apps and workflows) with ServiceNow, then this book is for you. What You Will Learn Customize the ServiceNow dashboard to meet your business requirements Use Administration and Security Controls to add roles and ensure proper access Manage tables and columns using data dictionaries Learn how application scopes are defined within ServiceNow Configure different types of table to design your application Start using the different types of scripting options available in ServiceNow Design and create workflows for task tables Use debugging techniques available in ServiceNow to easily resolve script-related issues Run scripts at regular time intervals using the Scheduled Script Execution module In Detail ServiceNow provides service management for every department in the enterprise, including IT, Human Resources, Facilities, Field Service, and more. This book focuses on all the steps required to develop apps and workflows for any of your business

requirements using ServiceNow. You will start with the first module, which covers the basics of ServiceNow and how applications are structured; how you can customize the dashboard as required; and also how to create users. After you get used to the dashboard, you will move on to the next module, Applications and Tables, where you will learn about working with different tables and how you can create a scope other than the global scope for your application. The next module is Scripting and APIs, where you will learn Scripting in ServiceNow and use powerful APIs to develop applications. The final module, Administration Essentials, covers debugging, advanced database features, and scheduled script creation. By the end of the book you will have mastered creating organized and customer-friendly applications Style and approach A step-by-step tutorial to designing applications and workflows with ServiceNow

*Intelligent Control Systems* Sep 07 2021

**Engineering Materials** Feb 24 2023 Introduces Emerging Engineering Materials Mechanical, materials, and production engineering students can greatly benefit from *Engineering Materials: Research, Applications and Advances*. This text focuses heavily on research, and fills a need for current information on the science, processes, and applications in the field. Beginning with a brief overview, the book provides a historical and modern perspective on material science, and describes various types of engineering materials. It examines the industrial process for emerging materials, determines practical use under a wide range of conditions, and establishes what is needed to produce a new generation of materials. Covers Basic Concepts and Practical Applications The book consists of 18 chapters and covers a variety of topics that include functionally graded materials, auxetic materials, whiskers, metallic glasses, biocomposite materials, nanomaterials, superalloys, superhard materials, shape-memory alloys, and smart materials. The author outlines the latest advancements, including futuristic plastics, sandwich composites, and biodegradable composites, and highlights special kinds of composites, including fire-resistant composites, marine composites, and biomimetics. He also factors in current examples, future prospects, and the latest research underway in materials technology. Contains approximately 160 diagrams and 85 tables Incorporates examples, illustrations, and applications used in a variety of engineering disciplines Includes solved numerical examples and objective questions with answers *Engineering Materials: Research, Applications and Advances* serves as a textbook and reference for advanced/graduate students in mechanical engineering, materials engineering, production engineering, physics, and chemistry, and relevant researchers and practicing professionals in the field of materials science.

*Fundamentals of Toxicology* Nov 09 2021 *Fundamentals of Toxicology: Essential Concepts and Applications* provides a crisp, easy-to-understand overview of the most important concepts, applications, and ideas needed to learn the basics of toxicology. Written by a pre-eminent toxicologist with over five decades of teaching experience, this comprehensive resource offers the hands-on knowledge needed for a strong foundation in the wide field of toxicology. *Fundamentals of Toxicology* includes a clear structure divided into five units to assist learning and understanding. The first unit provides extensive coverage on the background of toxicology including commonly used definitions and historical perspective, while following units cover: basic concepts; regulatory requirements and good laboratory practices, including types of toxicology testing and evaluation; toxic agents and adverse effects on health; and analytical, forensic, and diagnostic toxicology. This is an essential book for advanced students in toxicology and across the biomedical sciences, life sciences, and environmental sciences who want to learn the concepts of toxicology, as well as early researchers needing to refresh outside of their specialty. Explains the essential concepts of toxicology in a clear fashion Provides in-depth coverage of testing protocols, common drugs, chemicals, and laboratory-based diagnostic and analytical toxicology Explores the history, foundations, and most recent concepts of toxicology Serves as an essential reference for advanced students in toxicology and across the biomedical, life, and environmental sciences who want to learn the concepts of toxicology

**Microwaves and Metals** Jul 05 2021 Using microwaves to treat metal-based materials is rapidly emerging as an energy-efficient tool to interact with metals for a number of processes such as sintering, melting, brazing, carburizing and annealing. Microwaves can sinter a wide variety of metal compacts with comparable or enhanced end properties, while at the same time delivering tremendous energy savings over conventional sintering. Microwave processes are therefore gaining increasing attention and adoption in both academia and industry. Gupta and Wong have written this comprehensive text to introduce readers to the world of microwaves and the interaction of microwaves with metals and metals-based formulations. The authors have combined numerous research results from a wide range of sources alongside their own work in the field. Also included are overviews of microwave heating of other non-metal materials and the equipment used for microwave-assisted metallurgy. With microwave techniques poised for widespread adoption, *Microwaves and Metals* is an essential text for all metallurgists and materials engineers. Provides a thorough grounding in microwave fundamentals and their application to metals processing Informs readers of the latest developments in the field Presents a convenient single source for all aspects of microwave processing of metals and materials Contains liberal illustration to compare and benchmark research results Introduces all the necessary equipment, preparing readers for real-world practice *Microwaves and Metals* is ideal for a post-graduate or advanced undergraduate course in materials science or metallurgy. Materials and metallurgical engineers in industry, who are keen on cheaper, faster techniques, will also benefit from this book.

*Real-Time Simulation Technologies: Principles, Methodologies, and Applications* Oct 28 2020 *Real-Time Simulation Technologies: Principles, Methodologies, and Applications* is an edited compilation of work that explores fundamental concepts and basic techniques of real-time simulation for complex and diverse systems across a broad spectrum. Useful for both new entrants and experienced experts in the field, this book integrates coverage of detailed theory, acclaimed methodological approaches, entrenched technologies, and high-value applications of real-time simulation—all from the unique perspectives of renowned international contributors. Because it offers an accurate and otherwise unattainable assessment of how a system will behave over a particular time frame, real-time simulation is increasingly critical to the optimization of dynamic processes and adaptive systems in a variety of enterprises. These range in scope from the maintenance of the national power grid, to space exploration, to the development of virtual reality programs and cyber-physical systems. This book outlines how, for these and other undertakings, engineers must assimilate real-time data with computational tools for rapid decision making under uncertainty. Clarifying the central concepts behind real-time simulation tools and techniques, this one-of-a-kind resource: Discusses the state of the art, important challenges, and high-impact developments in simulation technologies Provides a basis for the study of real-time simulation as a fundamental and foundational technology Helps readers develop and refine principles that are applicable across a wide variety of application domains As science moves toward more advanced technologies, unconventional design approaches, and unproven regions of the design space, simulation tools are increasingly critical to successful design and operation of technical systems in a growing number of application domains. This must-have resource presents detailed coverage of real-time simulation for system design, parallel and distributed simulations, industry tools, and a large set of applications.

*Skew-Elliptical Distributions and Their Applications* May 23 2020 This book reviews the state-of-the-art advances in skew-elliptical distributions and provides many new developments in a single volume, collecting theoretical results and applications previously scattered throughout the literature. The main goal of this research area is to develop flexible parametric classes of distributions beyond the classical normal distribution. The book is divided into two parts. The first part discusses theory and inference for skew-elliptical distribution. The second part examines applications and case studies, including areas such as economics, finance, oceanography, climatology, environmetrics, engineering, image processing, astronomy, and biomedical science.

**Plant Image Analysis** Nov 16 2019 The application of imaging techniques in plant and agricultural sciences had previously been confined to images obtained through remote sensing techniques. Technological advancements now allow image analysis for the nondestructive and objective evaluation of biological objects. This has opened a new window in the field of plant science. *Plant Image Analysis: Fundamentals and*

Applications introduces the basic concepts of image analysis and discusses various techniques in plant imaging, their applications, and future potential. Several types of imaging techniques are discussed including RGB, hyperspectral, thermal, PRI, chlorophyll fluorescence, ROS, and chromosome imaging. The book also covers the use of these techniques in assessing plant growth, early detection of disease and stress, fruit crop yield, plant chromosome analysis, plant phenotyping, and nutrient status both in vivo and in vitro. The book is an authoritative guide for researchers and those teaching in the fields of stress physiology, precision agriculture, agricultural biotechnology, and cell and developmental biology. Graduate students and professionals using machine vision in plant science will also benefit from this comprehensive resource.

**CALCULUS OF VARIATIONS WITH APPLICATIONS** Nov 21 2022 Calculus of variations is one of the most important mathematical tools of great scientific significance used by scientists and engineers. Unfortunately, a few books that are available are written at a level which is not easily comprehensible for postgraduate students. This book, written by a highly respected academic, presents the materials in a lucid manner so as to be within the easy grasp of the students with some background in calculus, differential equations and functional analysis. The aim is to give a thorough and systematic analysis of various aspects of calculus of variations.

**Membranes for Environmental Applications** Jul 25 2020 This book introduces recent developments of membrane technologies applied to gas and water treatments, energy processes and environmental issues. Novel knowledge and mechanisms on membrane fabrication and usage in energy, chemical, and environmental engineering are detailed in 12 book chapters from France, UK, Spain, China, Nigeria, Iran and Pakistan. The information in this book will be useful for engineers, students, and experts in these fields.

*Fluid Mechanics And Its Applications, 1/e* Apr 14 2022 Written as an introduction to fluid mechanics for students of all engineering disciplines, this book emphasises fluid flow phenomena and its modelling.

**Materials in Nuclear Energy Applications** Dec 30 2020 The text combines an account of scientific and engineering principles with a description of materials and processes of importance in nuclear research and industry. The coverage includes fuel materials, control and shielding materials, and so on - in fact, for most of the important parts of a reactor.

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