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Soil Dynamics, Earthquake and Computational Geotechnical Engineering

Membranes

Trends in Civil Engineering and Challenges for Sustainability

Essentials of Thermal System Design and Optimization

Phase Change Material-Based Heat Sinks

Handbook of Research on Deep Learning-Based Image Analysis Under Constrained and Unconstrained Environments

Pops!

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Angewandte Mathematik: Body and Soul

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Mathematics-I Calculus and Linear Algebra (BSC-105) (For Computer Science & Engineering Students only)

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Stochastic Scheduling IGI Global

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Stochastic scheduling is in the area of production scheduling. There is a dearth of work that analyzes the variability of schedules. In a stochastic environment, in which the processing time of a job is not known with certainty, a schedule is typically analyzed based on the expected value of a performance measure. This book addresses this problem and presents algorithms to determine the variability of a schedule under various machine configurations and objective functions. It is intended for graduate and advanced undergraduate students in manufacturing, operations management, applied mathematics, and computer science, and it is also a good reference book for practitioners. Computer software containing the algorithms is provided on an accompanying website for ease of student and user implementation.

Soil Dynamics, Earthquake and Computational Geotechnical Engineering Springer Science & Business Media

Basic Mechanical Engineering curriculum focuses on what mechanical engineering is all about: design, analysis, materials and manufacture of systems. To that extent, all mathematics, science, and engineering courses relate their contents to analysis, design, development and manufacturing. Mechanical Engineering explains about the knowledge and understanding of the concepts in the mechanical engineering discipline. This book focuses on basic engineering concepts which will help student to perform well in the engineering field. The following topics are covered in this subject: • Design fundamentals • Engineering materials • Manufacturing processes • Machine tools • Thermal Engineering • Theory of Machines and Machine Design • Power absorbing devices • Steam Boilers, Compressors, Engines, and Turbines • Refrigeration and Air-conditioning Key Features • Course learning objectives • All topics explained in simple and lucid manner • Sufficient theory questions and Numerical problems for practice

Membranes Springer Nature

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Trends in Civil Engineering and Challenges for Sustainability Vikas Publishing House Phase-change Material based heat sinks and associated optimization remains a topic of great interest, as evident from the increasing number of citations and new applications and miniaturization. Often the multi objective perspective of such heat sinks is ignored. This book introduces the readers to the PCM based heat sinks and Multi objective optimization. The authors have also included interesting in house experimental results on the "Rotating heat sinks" which is a first of a kind work. Useful to budding thermal researchers and practicing engineers in the field, this book is also a great start for students to understand the cooling applications in electronics and an asset to every library in a technical university. Since this book not only gives a critical review of the state of the art but also presents the authors' own results. The book will encourage, motivate and let the reader consider pursuing a research career in electronic cooling technologies.

Essentials of Thermal System Design and Optimization New Age International

Essentials of Thermal System Design and Optimization New Age International Engineering Mathematics-IPearson Education IndiaEngineering Mathematics-IINew Age International Phase Change Material-Based Heat Sinks Springer Nature

This book comprises select proceedings of the 5th National Conference on Reliability and Safety (NCRS 2022). It provides comprehensive state-of-the-art research and development in diverse areas like reliability prediction, precursor event analysis, fuzzy reliability, structural reliability, passive system reliability, digital system reliability, risk informed approach to decision making, dynamic PSA, uncertainty and sensitivity modeling, among others. The book is a valuable resource for researchers and professionals working in both academia and industry in the areas of complex systems, safety critical systems and risk-based engineering.

Handbook of Research on Deep Learning-Based Image Analysis Under Constrained and Unconstrained Environments CRC Press

This highly informative and carefully presented textbook introduces the general principles involved in system design and optimization as applicable to thermal systems, followed by the methods to accomplish them. It introduces contemporary techniques like Genetic Algorithms, Simulated Annealing, and Bayesian Inference in the context of optimization of thermal systems. There is a separate chapter devoted to inverse problems in thermal systems. It also contains sections on Integer Programming and Multi-Objective optimization. The linear programming chapter is fortified by a detailed presentation of the Simplex method. A major highlight of the textbook is the inclusion of workable MATLAB codes for examples of key algorithms discussed in the book. Examples in each chapter clarify the concepts and methods presented and end-of-chapter problems supplement the material presented and enhance the learning process.

Pops! Cambridge University Press

Mathematics-I for the paper BSC-105 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-105 is exclusively for CS&E students. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of

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worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence. Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems. S. Chand Publishing

This book comprises the select proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2020. In particular, this volume discusses different topics of industrial and production engineering such as sustainable manufacturing processes, logistics, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as industry professionals. Advances in Reliability and Safety Assessment for Critical Systems CRC Press My name is V. Arun. I am seven years old. My father's name is Venkatesh. He is very good. He never gets mad at me. He buys me a lot of toys and chocolates ... I love my father. That's a big bluff. Arun has never met his dad. He has only seen his photograph in the wedding album. And he hates him. Then one day, his father comes back. His mother has to take Arun to meet him once a month. It's a court order. His grandparents say that the Man is very bad and might try to take him away from his mom. Arun is scared and angry. But why does the Man keep bringing him gifts? Why does he play

with dogs? Why does he climb like a monkey? Why does he keep saying 'Pop! Pop! Pop!'? As if Arun

Angewandte Mathematik: Body and Soul Springer Nature

could ever start calling this strange Man 'Pops'!

Engineering Mathematics-I

Intelligent Communication Technologies and Virtual Mobile Networks Springer Nature This book gathers the best articles presented by researchers and industrial experts at the International Conference on "Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)". The papers discuss new design concepts, analysis and manufacturing technologies, with an emphasis on achieving improved performance by downsizing; improving the weight-to-strength ratio, fuel efficiency, and operational capability at room and elevated temperatures; reducing wear and tear; and addressing NVH aspects, while balancing the challenges of Euro IV/Barat Stage IV emission norms and beyond, greenhouse effects, and recyclable materials. The innovative methods discussed here offer valuable reference material for educational and research organizations, as well as industry, encouraging them to pursue challenging projects of mutual interest.

Textile and Engineering Directory for India and Pakistan Springer **Engineering Mathematics-I**

Engineering Mathematics-II Springer Nature

Scientia Magna international book series publish original research articles in all areas of mathematics and mathematical sciences. However, papers related to Smarandache's problems will be highly preferred.

Software Engineering Perspectives and Application in Intelligent Systems Allied Publishers

"Angewandte Mathematik: Body & Soul" ist ein neuer Grundkurs in der Mathematikausbildung für Studienanfänger in den Naturwissenschaften, der Technik, und der Mathematik, der an der Chalmers Tekniska Högskola in Göteborg entwickelt wurde. Er besteht aus drei Bänden sowie Computer-Software. Das Projekt ist begründet in der Computerrevolution, die ihrerseits völlig neue Möglichkeiten des wissenschaftlichen Rechnens in der Mathematik, den Naturwissenschaften und im Ingenieurwesen eröffnet hat. Es besteht aus einer Synthese der mathematischen Analysis (Soul) mit der numerischen Berechnung (Body) sowie den Anwendungen. Die Bände I-III geben eine moderne Version der Analysis und der linearen Algebra wieder, einschließlich konstruktiver numerischer Techniken und Anwendungen, zugeschnitten auf Anfängerprogramme im Maschinenbau und den Naturwissenschaften. Weitere Bände behandeln Themen wie z.B. dynamische Systeme, Strömungsdynamik, Festkörpermechanik und Elektromagnetismus. Dieser Band entwickelt das Riemann-Integral, um eine Funktion zu einer gegebenen Ableitung zu bestimmen. Darauf aufbauend werden Differentialgleichungen und Anfangswertprobleme mit einer Vielzahl anschaulicher Anwendungen behandelt. Die lineare Algebra wird auf n-dimensionale Räume verallgemeinert, wobei wiederum dem praktischen Umgang und numerischen Lösungstechniken besonderer Platz eingeräumt wird. Die Autoren sind führende Experten im Gebiet des wissenschaftlichen Rechnens und haben schon mehrere erfolgreiche Bücher geschrieben. "[.....] Oh, by the way, I suggest immediate purchase of all three volumes!" The Mathematical Association of America Online, 7.7.04 Innovative Design, Analysis and Development Practices in Aerospace and Automotive

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Engineering (I-DAD 2018) Pearson Education India

Stem Cell Biology and Tissue Engineering in Dental Sciences bridges the gap left by many tissue engineering and stem cell biology titles to highlight the significance of translational research in this field in the medical sciences. It compiles basic developmental biology with keen focus on cell and matrix biology, stem cells with relevance to tissue engineering biomaterials including nanotechnology and current applications in various disciplines of dental sciences; viz., periodontology, endodontics, oral & craniofacial surgery, dental implantology, orthodontics & dentofacial orthopedics, organ engineering and transplant medicine. In addition, it covers research ethics, laws and industrial pitfalls that are of particular importance for the future production of tissue constructs. Tissue Engineering is an interdisciplinary field of biomedical research, which combines life, engineering and materials sciences, to progress the maintenance, repair and replacement of diseased and damaged tissues. This ever-emerging area of research applies an understanding of normal tissue physiology to develop novel biomaterial, acellular and cell-based technologies for clinical and non-clinical applications. As evident in numerous medical disciplines, tissue engineering strategies are now being increasingly developed and evaluated as potential routine therapies for oral and craniofacial tissue repair and regeneration. Diligently covers all the aspects related to stem cell biology and tissue engineering in dental sciences: basic science, research, clinical application and commercialization Provides detailed descriptions of new, modern technologies, fabrication techniques employed in the fields of stem cells, biomaterials and tissue engineering research including details of latest advances in nanotechnology Includes a description of stem cell biology with details focused on oral and craniofacial stem cells and their potential research application throughout medicine Print book is available and black and white, and the ebook is in full color

Sustainability Trends and Challenges in Civil Engineering S. Chand Publishing
This volume provides valuable insight into diverse topics related to mechanical engineering and presents state-of-the-art work on sustainable development being carried out throughout the world by budding researchers and scientists. Divided into three sections, the volume covers machine design, materials and manufacturing, and thermal engineering. It presents innovative research work on machine design that is of relevance to such varied fields as the automotive industry, agriculture, and human anatomy. The second section addresses materials characterization, an important tool in assessing proper materials for application-oriented jobs, and emerging unconventional machining processes that are important in design engineering for new products and tools. The section on thermal engineering broadly covers the use of viable alternate fuels, such as HHO, biodiesel, etc., with the objective of reducing the burden on petroleum reserves and the environment.

Indian National Bibliography Springer Nature

The vital concept of optimization has been largely neglected in thermal sciences. Keeping this in mind, Essentials of Thermal System Design and Optimization introduces the general principles involved in system design and optimization as applicable to thermal systems, followed by the methods to implement them. The book features several surprising examples and uses a conversational style to, for the first time, introduce contemporary techniques and concepts, such as genetic algorithms, simulated annealing, ANN, and Bayesian Inference in the context of thermal system optimization. An independent chapter is devoted to inverse problems in thermal systems. Examples and problems in every chapter clarify presented concepts and methods, and supplemental end-of-chapter problems enhance the learning process.

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Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae Springer Green Sustainable Process for Chemical and Environmental Engineering and Science: Natural Materials-Based Green Composites 2: Biomass deals with using biomass in the preparation of green composites and focuses on biomass from agro-industrial waste, geopolymers, natural gums, plants, green algae, etc. The book covers applications in allied areas such as energy and environment that process fuels and chemicals, wastewater treatment, coatings and catalysis. The book deals with a broad range of material types, including natural fiber reinforced polymer composites, particulate composites, fiberboard, wood fiber composites, and plywood composites that utilize natural, renewable, and biodegradable agricultural biomass. The book complements Natural Materials-based Green Composites 1: Plant Fibers that includes introductory information and various innovative applications of most important plant fiber-based materials such as wood fibers, vegetable fibers, jute fibers, stalk fibers, and hemp fibers. Focuses on the use of biomass for the preparation of green composites Discusses details about biomass from natural and industrial waste Provides an overview of the applicability of green composites

Advances n Mechanical Engineering Springer

This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and geographical information systems. With a special emphasis on sustainable development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering.