

Mechanical Operations By Anup K Swain G K Roy Hemlata

Industrial Economist
 Nature Inspired Computing for Data Science
 CHEMICAL PROCESS MODELLING AND COMPUTER SIMULATION
 Production Economics
 Metaheuristic Approaches to Portfolio Optimization
 Fuzzy Sets in Engineering Design and Configuration
 Technology Innovation in Mechanical Engineering
 Mechanical Operations
 Proceedings of International Conference in Mechanical and Energy Technology
 Emerging Technologies for Sustainability
 Mechanical Operations, 1E
 Simulation Modeling and Analysis
 Internal Combustion Engine Fundamentals
 Reliability, Safety and Hazard Assessment for Risk-Based Technologies
 Advances in Mechanical Engineering
 Chemical Engineering Fluid Mechanics
 Techno-Societal 2018
 Sustainable Procurement in Supply Chain Operations
 Computational Approaches to Materials Design: Theoretical and Practical Aspects
 Flexibility, Innovation, and Sustainable Business
 Popular Mechanics
 Additive Manufacturing Technologies from an Optimization Perspective
 Basic Mechanical Engineering
 Advances in Mechanical and Materials Technology
 Winter Annual Meeting
 Advances in Industrial and Production Engineering
 Recent Trends in Industrial and Production Engineering
 Techno-Societal 2020
 Hybrid Power Cycle Arrangements for Lower Emissions
 Thin Film Structures in Energy Applications
 Official Gazette of the United States Patent and Trademark Office
 Handbook of Computational Intelligence in Manufacturing and Production Management
 Advances in Engineering Design
 Soft Computing in Condition Monitoring and Diagnostics of Electrical and Mechanical Systems
 Jet Cutting Technology
 Analysis and Design of Machine Elements
 Processability of Polymeric Composites
 Paper
 Mechanical System Design

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GAIGE JAQUAN

Industrial Economist Springer Nature

This text, by a leading authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed.

Nature Inspired Computing for Data Science Springer Nature

During the last two decades, computer and information technologies have forced great changes in the ways businesses manage operations in meeting the desired quality of products and services, customer demands, competition, and other challenges. The Handbook of Computational Intelligence in Manufacturing and Production Management focuses on new developments in computational intelligence in areas such as forecasting, scheduling, production planning, inventory control, and aggregate planning, among others. This comprehensive collection of research provides cutting-edge knowledge on information technology developments for both researchers and professionals in fields such as operations and production management, Web engineering, artificial intelligence, and information resources management.

CHEMICAL PROCESS MODELLING AND COMPUTER SIMULATION IGI Global

This book provides readers with the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer

needs today in the chemical and related industries, in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

Production Economics I. K. International Pvt Ltd

Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. This book includes basic knowledge of various mechanical systems used in day to day life. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Metaheuristic Approaches to Portfolio Optimization CRC Press

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Fuzzy Sets in Engineering Design and Configuration Mechanical Operations, 1E

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd 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 is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. 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.

Technology Innovation in Mechanical Engineering McGraw-Hill Science Engineering

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). The book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics, finite element modeling, computer aided engineering and analysis, fracture mechanics, and vibration. The book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field.

Mechanical Operations Springer

This volume presents selected papers from the International Conference on Reliability, Safety, and Hazard. It presents the latest developments in reliability engineering and probabilistic safety assessment, and brings together contributions from a diverse international community and covers all aspects of safety, reliability, and hazard assessment across a host of interdisciplinary applications. This book will be of interest to researchers in both academia and the industry.

Proceedings of International Conference in Mechanical and Energy Technology Tata McGraw-Hill Education

Hybrid Power Cycle Arrangements for Lower Emissions is an edited book that explores the state-of-the-art for creating effective hybrid power cycles for power generation with lower emission while utilizing different energy sources. The book details energetic and exergetic studies for improving system design and performance of hybrid power cycle arrangements. Chapters in the book provide a systematic approach to the integration and operation of different thermal power cycles with renewable energy sources. The book brings together researchers and practitioners from academia and industry to present their recent and ongoing research and development activities concerning the advancement of hybridization of different conventional and unconventional energy sources to produce efficient and clean energy systems. The book chapters present a range of ongoing research and development activities, challenges, constraints, and opportunities in both theoretical as well as application aspects of several hybrid technologies for power generation. Several issues such as hybridization of different energy sources, availability, environmental impacts, and power cycle integration are addressed in-depth, making this collection a worthy repository for those working in the field of the power cycles.

Emerging Technologies for Sustainability CRC Press

The development of new and superior materials is beneficial within industrial settings, as well as a topic of academic interest. By using computational modeling techniques, the probable application and performance of these materials can be easily evaluated. Computational Approaches to Materials Design: Theoretical and Practical Aspects brings together empirical research, theoretical concepts, and the various approaches in the design and discovery of new materials. Highlighting optimization tools and soft computing methods, this publication is a comprehensive collection for researchers, both in academia and in industrial settings, and practitioners who are interested in the application of computational techniques in the field of materials engineering.

Mechanical Operations, 1E Springer Nature

The theme of conference is Emerging Technologies for Sustainability. Sustainability tends to be problem driven and oriented towards guiding decision making. The goal is to raise the global standard of living without increasing the use of resources beyond global sustainable levels. The conference is intended to act as a platform for researchers to share and gain knowledge, showcase their research findings and propose new solutions in policy formulation, design, processing and application of green materials, material selection, analysis, green manufacturing, testing and synthesis, thereby contributing to the creation of a more sustainable world.

Simulation Modeling and Analysis Springer Nature

Mechanical Operations, 1E Tata McGraw-Hill Education Mechanical Operations Proceedings of International Conference in Mechanical and Energy Technology Springer Nature

Internal Combustion Engine Fundamentals Springer Nature

This volume contains papers presented at the 11th International Conference on Jet Cutting Technology, held at St. Andrews, Scotland, on 8-10 September 1992. Jetting techniques have been successfully applied for many years in the field of cleaning and descaling. Today, however, jet cutting is used in operations as diverse as removing cancerous growths from the human body, decommissioning sunsea installations and disabling explosive munitions. The diversity is reflected in the papers presented at the conference. The papers were divided into several main sections: jetting basics -- materials; jetting basics -- fluid mechanics; mining and quarrying; civil engineering; new developments; petrochem; cleaning and surface treatment; and manufacturing. The high quality of papers presented at the conference has further reinforced its position as the premier event in the field. The volume will be of interest to researchers, developers and manufacturers of systems, equipment users and contractors.

Reliability, Safety and Hazard Assessment for Risk-Based Technologies CRC Press

In machine design or design of machine elements we study about the design of individual components of machinery like shafts, keys, belts, bolts,

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gears, etc. In mechanical system design we means that how these components are going to work in collaboration, reliability of the system when different components work together. This book includes design of conveyors for material handling systems (belt conveyors), design of multispeed gearbox for machine tools, design of I.C. engine components and optimum design. It also includes the design of pressure vessels used in mechanical systems. This book provides a systematic exposition of the basic concepts and techniques involved in design of mechanical systems. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Advances in Mechanical Engineering PHI Learning Pvt. Ltd.

This book presents the select proceedings of Congress on Advances in Materials Science and Engineering (CAMSE 2020). It focuses on the state-of-the-art research, development, and commercial prospective of recent advances in mechanical engineering. The book covers various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering, manufacturing, physics, chemical and biological sciences, metrology, optimization and artificial intelligence among others. This book will be a useful resource for researchers, academicians as well as professionals interested in the highly interdisciplinary field of materials science and mechanical engineering.

Chemical Engineering Fluid Mechanics Springer Nature

This book discusses the current research and concepts in data science and how these can be addressed using different nature-inspired optimization techniques. Focusing on various data science problems, including classification, clustering, forecasting, and deep learning, it explores how researchers are using nature-inspired optimization techniques to find solutions to these problems in domains such as disease analysis and health care, object recognition, vehicular ad-hoc networking, high-dimensional data analysis, gene expression analysis, microgrids, and deep learning. As such it provides insights and inspiration for researchers to wanting to employ nature-inspired optimization techniques in their own endeavors.

Techno-Societal 2018 Technical Publications

Control of an impartial balance between risks and returns has become important for investors, and having a combination of financial instruments within a portfolio is an advantage. Portfolio management has thus become very important for reaching a resolution in high-risk investment opportunities and addressing the risk-reward tradeoff by maximizing returns and minimizing risks within a given investment period for a variety of assets. Metaheuristic Approaches to Portfolio Optimization is an essential reference source that examines the proper selection of financial instruments in a financial portfolio management scenario in terms of metaheuristic approaches. It also explores common measures used for the evaluation of risks/returns of portfolios in real-life situations. Featuring research on topics such as closed-end funds, asset allocation, and risk-return paradigm, this book is ideally designed for investors, financial professionals, money managers, accountants, students, professionals, and researchers.

Sustainable Procurement in Supply Chain Operations IGI Global

The book covers fundamental concepts, description, terminology, force analysis and methods of analysis and design. The emphasis in treating the machine elements is on methods and procedures that give the student competence in applying these to mechanical components in general. The book offers the students to learn to use the best available scientific understanding together with empirical information, good judgement, and often a degree of ingenuity, in order to produce the best product. Few unique articles e.g., chain failure modes, lubrication of chain drive, timing belt pulleys, rope lay selection, wire rope manufacturing methods, effect of sheave size etc., are included. Friction materials are discussed in detail for both wet and dry running with the relevant charts used in industry. Design of journal bearing is dealt exhaustively. Salient Features: " Compatible with the Machine Design Data Book (same author and publisher). " Thorough treatment of the requisite engineering mechanics topics. " Balance between analysis and design. " Emphasis on the materials, properties and analysis of the machine element. " Material, factor of safety and manufacturing method are given for each machine element. " Design steps are given for all important machine elements. " The example design problems and solution techniques are spelled out in detail. " Objective type, short answer and review problems are given at the end of each chapter. " All the illustrations are done with the help of suitable diagrams. " As per Indian Standards.

Computational Approaches to Materials Design: Theoretical and Practical Aspects Springer Science & Business Media

This book presents selected peer-reviewed papers from the International Conference on Mechanical and Energy Technologies, which was held on 7-8 November 2019 at Galgotias College of Engineering and Technology, Greater Noida, India. The book reports on the latest developments in the field of mechanical and energy technology in contributions prepared by experts from academia and industry. The broad range of topics covered includes aerodynamics and fluid mechanics, artificial intelligence, nonmaterial and nonmanufacturing technologies, rapid manufacturing technologies and prototyping, remanufacturing, renewable energies technologies, metrology and computer-aided inspection, etc. Accordingly, the book offers a valuable resource for researchers in various fields, especially mechanical and industrial engineering, and energy technologies.

Flexibility, Innovation, and Sustainable Business Springer Nature

This book addresses a range of complex issues associated with condition monitoring (CM), fault diagnosis and detection (FDD) in smart buildings, wide area monitoring (WAM), wind energy conversion systems (WECSs), photovoltaic (PV) systems, structures, electrical systems, mechanical systems, smart grids, etc. The book's goal is to develop and combine all advanced nonintrusive CMFD approaches on a common platform. To do so, it explores the main components of various systems used for CMFD purposes. The content is divided into three main parts, the first of which provides a brief introduction, before focusing on the state of the art and major research gaps in the area of CMFD. The second part covers the step-by-step implementation of novel soft computing applications in CMFD for electrical and mechanical systems. In the third and final part, the simulation codes for each chapter are included in an extensive appendix to support newcomers to the field.