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This textbook is targetted to undergraduate students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The

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application of these principles to separation processes is explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in equipment have been included as far as possible. The procedure of equipment design and

sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. 'Humidification and water cooling', necessary in every process industry, is also described. Finally, elementary principles of 'unsteady state diffusion' and mass transfer accompanied by a chemical reaction are covered. SALIENT FEATURES :

- **A balanced coverage of theoretical principles and applications.**
-

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Important recent developments in mass transfer equipment and practice are included. • A large number of solved problems of varying levels of complexities showing the applications of the theory are included. • Many end-chapter exercises. • Chapter-wise multiple choice questions. • An Instructors manual for the teachers. Sustainable Procurement is an emerging concept in supply chain and operations management. Manufacturing industries

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have made improvements in moving from cost-based to quality-based, and customer-focused supply chain management strategies. This is becoming an integrated component in the supply chain system, with players becoming aware of the regulations and needs of the customer. It is imperative for production firms to look at the procurement activity as one of the strategic enablers for sustaining the business in the competitive global environment. This

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book will provide industries with an understanding of the concepts related to sustainable procurement policies and its implementation. Provides decision and theory development models in sustainable procurement supply chains Includes contributions in all three major analytics: descriptive, predictive, and perspectives in the context of sustainable procurement supply chain Discusses new business models with suppliers and opportunities for co-branding Covers how

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to develop new tools to measure and allocate the gains from sustainable practices among stakeholders Analyses the science of translating data into meaningful and actionable insights 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,

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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.

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

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information technology developments for both researchers and professionals in fields such as operations and production management, Web engineering, artificial intelligence, and information resources management.

**Evaluating Costs of Operations in Manufacturing and Service Industries
Metaheuristic Approaches to Portfolio Optimization
Thin Film Structures in Energy Applications**

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**Technology Innovation in Mechanical Engineering
Novel Methods for Condition Monitoring and Diagnostics
Select Proceedings of ICETMIE 2019**

A web application involves many specialists, but it takes people in web ops to ensure that everything works together throughout an application's lifetime. It's the expertise you need when your start-up gets an unexpected spike in web traffic, or when a new feature causes your mature application to fail. In this collection of essays and interviews, web veterans

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such as Theo Schlossnagle, Baron Schwartz, and Alistair Croll offer insights into this evolving field. You'll learn stories from the trenches--from builders of some of the biggest sites on the Web--on what's necessary to help a site thrive. Learn the skills needed in web operations, and why they're gained through experience rather than schooling. Understand why it's important to gather metrics from both your application and infrastructure. Consider common approaches to database architectures and the pitfalls that come with increasing scale. Learn how to handle the human side of outages and

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degradations Find out how one company avoided disaster after a huge traffic deluge Discover what went wrong after a problem occurs, and how to prevent it from happening again Contributors include: John Allspaw Heather Champ Michael Christian Richard Cook Alistair Croll Patrick Debois Eric Florenzano Paul Hammond Justin Huff Adam Jacob Jacob Loomis Matt Massie Brian Moon Anoop Nagwani Sean Power Eric Ries Theo Schlossnagle Baron Schwartz Andrew Shafer
Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical

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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. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the

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gap between knowledge and proper application of that knowledge.

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

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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

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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.

Hybrid Power Cycle Arrangements for Lower Emissions is an edited book that explores the state-of-the-art for creating effective hybrid power cycles

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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

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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.

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Patents

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Recent Trends in Industrial and Production
Engineering

ICMET 2019, India

Nature Inspired Computing for Data Science

Robotic Systems: Concepts, Methodologies, Tools,
and Applications

**This book presents selected papers from the
International Conference on Advances in
Materials Processing and Manufacturing
Applications (iCADMA 2020), held on November**

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5-6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks - Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

This book presents select papers from the International Conference on Energy, Material Sciences and Mechanical Engineering (EMSME) - 2020. The book covers the three core areas of energy, material sciences and mechanical engineering. The topics covered include non-

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conventional energy resources, energy harvesting, polymers, composites, 2D materials, systems engineering, materials engineering, micro-machining, renewable energy, industrial engineering and additive manufacturing. This book will be useful to researchers and professionals working in the areas of mechanical and industrial engineering, materials applications, and energy technology. 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

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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. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars

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believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Select Proceedings of EMSME 2020
Sustainable Product Design and Development**

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**Proceedings of International Conference in
Mechanical and Energy Technology
Fuzzy Sets in Engineering Design and
Configuration
Hybrid Power Cycle Arrangements for Lower
Emissions
Applications of Fundamentals**

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,

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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

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premier event in the field. The volume will be of interest to researchers, developers and manufacturers of systems, equipment users and contractors.

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

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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.

Operations research is the fast developing branch of science which deals with the most

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of the engineering activities. It consist of many models which are used to obtain the optimum solution for different activities. Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained. An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution. These techniques are extensively used in those engineering design problem where the emphasis is on maximising or minimising a certain goal. This

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book is the introduction to the different techniques in operations research. The subject does not require a high level of mathematical knowledge. Each chapter of the book have examples from variety of fields. Our hope is that this book, through its careful explanations of concepts, practical examples and techniques bridges the gap between knowledge and proper application of that knowledge.

This book presents the select proceedings of the International Conference on Advances in Sustainable Technologies (ICAST 2020), organized by Lovely Professional University,

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Punjab, India. This book caters to the industrial and production engineering aspects. It covers the industrial and production engineering areas such as sustainable manufacturing systems, decision sciences, supply chain management, Just in Time (JIT), logistics and supply chain management, rapid prototyping and reverse engineering, quality control and reliability, six sigma, smart manufacturing, time and motion study, six sigma, ergonomics, operations management, manufacturing management, metrology, manufacturing process optimization, machining and machine tools,

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casting, welding, and forming. This book will be useful for industry professionals and researchers working in the area of mechanical engineering, especially industrial and production engineering.

Select Proceedings of TIME 2021

Fundamentals and Applications

Jet Cutting Technology

Paper

Fundamentals and Operations in Food Process

Engineering

PRINCIPLES OF MASS TRANSFER AND SEPERATION

PROCESSES

In this technology-driven era, conventional manufacturing i

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increasingly at risk of reaching its limit, and a more design-driven manufacturing process, additive manufacturing, might just hold the key to innovation. Offering a higher degree of design freedom, the optimization and integration of functional features, and the manufacturing of small batch sizes, additive manufacturing is changing industry as we know it. Additive Manufacturing Technologies From an Optimization Perspective is a critical reference source that provides a unified platform for the dissemination of basic and applied knowledge about additive manufacturing. It carefully examines how additive manufacturing is increasingly being used in series production, giving those in the most varied sectors of industry the opportunity to cre

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distinctive profile for themselves based on new customer benefits, cost-saving potential, and the ability to meet sustainability goals. Highlighting topics such as bio-printing tensile strength, and cell printing, this book is ideally designed for academicians, students, engineers, scientists, software developers, architects, entrepreneurs, and medical professionals interested in advancements in next-generation manufacturing.

This book presents a selection of papers on advanced technologies for 3D printing and additive manufacturing, and demonstrates how these technologies have changed the face of direct, digital technologies for the rapid production of models, prototypes and patterns. Because of their wide range

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of applications, 3D printing and additive manufacturing technologies have sparked a powerful new industrial revolution in the field of manufacturing. The evolution of 3D printing and additive manufacturing technologies has changed design, engineering and manufacturing processes across such diverse industries as consumer products, aerospace, medical devices and automotive engineering. This book will help designers, R&D personnel, and practicing engineers grasp the latest developments in the field of 3D Printing and Additive Manufacturing.

As understanding of the engineering design and configuration processes grows, the recognition that these processes intrinsically involve imprecise information is also

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growing. This book collects some of the most recent work in the area of representation and manipulation of imprecise information during the synthesis of new designs and selection of configurations. These authors all utilize the mathematics of fuzzy sets to represent information that has not-yet been reduced to precise descriptions, and in most cases also use the mathematics of probability to represent more traditional stochastic uncertainties such as uncontrolled manufacturing variations, etc. These advances form the nucleus of new formal methods to solve design, configuration, and concurrent engineering problems. Hans-Jurgen Sebastian Aachen, Germany Erik K. Antonsson Pasadena, California

ACKNOWLEDGMENTS We wish to

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thank H.-J. Zimmermann for inviting us to write this book. We are also grateful to him for many discussions about this new field Fuzzy Engineering Design which have been very stimulating. We wish to thank our collaborators in particular: B. Funke, M. Tharigen, K. Miiller, S. Jarvinen, T. Goudarzi-Pour, and T. Kriese in Aachen who worked in the PROKON project and who elaborated some of the results presented in the book. We also wish to thank Michael J. Scott for providing invaluable editorial assistance. Finally, the book would not have been possible without the many contributions and suggestions of Alex Greene of Kluwer Academic Publishers.

1 MODELING IMPRECISION IN
ENGINEERING DESIGN Erik K. Antonsson, Ph.D., P.E.

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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

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engineering.

Emerging Trends in Mechanical Engineering

Operation Research

Advances in Mechanical and Materials Technology

Technical papers presented and available

Advances in Engineering Design

Mechanical System Design

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

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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.

This textbook covers the processing of advanced composites and their various technologies, with special emphasis on the distinct characteristics of processability. The book covers the

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impact of different processing techniques on the performance and characteristics of the final product. Written with a didactic approach, the volume contains extensive illustrations and pedagogic features (including examples and exercises) to help the reader assess and correlate existing technologies. The book will be useful as a text in graduate courses in processing of polymers and composites and can additionally be used as a professional reference.

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

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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.

This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13–15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer

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Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and security, making it a rich source of reference material for academia and industry alike.

Advances in Materials Processing and Manufacturing Applications

Keeping the Data On Time

Winter Annual Meeting

Advances in Mechanical Engineering

Production Economics

Analysis and Design of Machine Elements

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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

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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.

This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the

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diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics,

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Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and

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experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

This book consists of select proceedings of the International Conference on Emerging Trends in Mechanical and Industrial Engineering (ICETMIE) 2019. It covers current trends in thermal, design, industrial, production and other sub-disciplines of mechanical engineering. This volume focuses on

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different areas of design engineering including computational mechanics, computational fluid dynamics, finite elements in modelling, simulation, analysis and design, kinematics and dynamics of rigid bodies, micro- and nano-mechanics, solid mechanics and structural mechanics, vibration and acoustics, applied mechanics, and biomechanics. It also covers various topics from thermal engineering including refrigeration plants, heat exchangers, heat pumps and heat pipes, combined heat and power and advanced alternative cycles, polygeneration, combustion processes, heat transfer, solar cells, solar thermal

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power plants, and the integration of renewable energy with conventional processes. This book will be useful for students, researchers as well as professionals working in the area of mechanical engineering, especially thermal engineering and engineering design and other allied areas.

Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at

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large face on a daily basis. Robotic Systems: Concepts, Methodologies, Tools, and Applications is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners

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seeking current research on developing innovative ideas for intelligent and autonomous robotics systems.

Concepts, Methodologies, Tools, and Applications

Handbook of Computational Intelligence in

Manufacturing and Production Management

Mechanical Operations, 1E

Soft Computing in Condition Monitoring and

Diagnostics of Electrical and Mechanical Systems

Computational Approaches to Materials Design:

Theoretical and Practical Aspects

Basic Mechanical Engineering

This book presents select proceedings of the International

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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.

This book provides a comprehensive overview of thin film structures in energy applications. Each chapter contains both fundamentals principles for each thin film

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structure as well as the relevant energy application technologies. The authors cover thin films for a variety of energy sectors including inorganic and organic solar cells, DSSCs, solid oxide fuel cells, thermoelectrics, phosphors and cutting tools.

This book serves a unique purpose within the world of engineering. It covers the economics of modern manufacturing and focuses on examining the techniques and methods from a cost perspective. It can be used by both students and professionals alike. The book is useful to students in industrial engineering and mechanical engineering programs as a primary textbook for

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engineering economy, production costing, and related courses. It can also be used by MBA students specializing in production management and finance. Specific topics of coverage include the computation of direct and indirect cost for manufacturing operations, including a variety of overhead operations in such an environment. Costing of manufacturing methods such as casting, forging, turning, milling, and welding is addressed along with inventory analysis. The book also includes fundamental concepts such as cash flow analysis, present and future worth analysis, and rate of return analysis. Related topics such as equipment replacement, comparison of alternatives,

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depreciation, buy versus make decisions, interest factors, and equivalence are covered in detail as well. Key Features: Addresses the costing of manufacturing operations through a step-by-step problem solving approach. Includes traditional engineering topics such as cash flow analysis, present worth, future worth analysis, replacement analysis, equivalence, and depreciation are addressed in depth as well. Offers a variety of solved examples that can be used to develop a thorough understanding of the underlying concept. Provides a number of practice problems at the end of each chapter. Presents a large number of figures and tables in almost

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every chapter, to assist in visualizing the concept and apply it successfully. Production Economics: Evaluating Costs of Operations in Manufacturing and Service Industries focuses on rigorous problem solving. Each topic is presented succinctly along with numerous solved examples, along with a large number of end-of-chapter practice problems where applicable.

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

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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.

Additive Manufacturing Technologies From an
Optimization Perspective

Proceedings of International Conference on Frontiers in

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Computing and Systems

Mechanical Operations

Theoretical and Practical Aspects

Web Operations

Sept.

This book outlines the process of sustainable product design and development. It presents design guidelines that help prolong the life of a product and minimize its environmental impact. These guidelines specifically enable product design for end-of-life (EoL) objectives such as reuse, recycling and remanufacturing.

Sustainable Product Design and Development also presents mathematical models that will help the designer determine the cost of designing sustainable products. This cost can be computed e

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during the design stage of a product. Sustainable Product Design and Development presents different ways and means by which a product can address all three pillars of sustainability—environmental conservation, social sustainability, and economic sustainability. Various case studies are incorporated in different chapters. Case studies on designing products for assembly, disassembly and remanufacturing have been presented in their respective chapters. The book also provides an overview of global environmental legislation to help the reader grasp the importance of waste management and sustainable product design. This book is aimed at professionals, engineering students, environmental scientists, and those in the business environment. Fundamentals and Operations in Food Process Engineering deals with the basic engineering principles and transport processes

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applied to food processing, followed by specific unit operations a large number of worked-out examples and problems for practice in each chapter. The book is divided into four sections: fundamentals in food process engineering, mechanical operations in food processing, thermal operations in food processing and mass transfer operations in food processing. The book is designed for students pursuing courses on food science and food technology including a broader section of scientific personnel in the food processing and related industries.

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 des

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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 clear explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Proceedings of iCADMA 2020

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Sustainable Procurement in Supply Chain Operations

3D Printing and Additive Manufacturing Technologies

Chemical Engineering Fluid Mechanics

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Official Gazette of the United States Patent and Trademark Office