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Modern Manufacturing Processes draws on the latest international research on traditional and non-traditional practices, to provide valuable advice on the digitization and automation of the manufacturing industry. In addition to providing technical details for the correct implementation of the latest tools and practices, the impacts on productivity and design quality are also examined. The thorough classification of manufacturing processes will help readers to decide which

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technology is most effective for their requirements, and comparisons between modern and traditional methods will clarify the case for upgrading. This comprehensive assessment of technologies will include additive manufacturing, and industry 4.0, as well as hybrid methods where exceptional results have been gained through the use of traditional technology. This collection of work by academics at the cutting edge of manufacturing research will help readers from a range of backgrounds to understand and apply these new technologies. Explains how the correct implementation of modern manufacturing processes can help a factory gain the characteristics of an industry 4.0 business Explores what the main technical and business drivers for new manufacturing processes are today Provides detailed

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classifications and comparisons of traditional, non-traditional, and hybrid manufacturing processes

The Taxi Life had become a hell for Adam. William was torturing him a lot with his useless restrictions. Which made him to think about whether the taxi life was his destiny? Or the God had created something else for him? Lisa was a Science student and meets Adam unknowingly. Adam thinks about Lisa that she was basically a typical kind of women. He meets different science people and finally concludes that Lisa was a little better among them. He faced the problems which belong to the darkest side of the mankind in his journey. A loving friend is the one who stands by your side in your sad times. Danny was one of them. But, the problem which he

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faced was such a terrifying one which made even Danny to stay calm and move accordingly to the situation. Luck favors the one who is brave. Adam, instead of being the bravest was not able to solve his problems even though he found two ways to get rid of it. At last, the science people are the one who had shown Adam a way to live after such a struggle which made Adam to correct his words about them.

Introduction to Mathematical Modeling and Chaotic Dynamics focuses on mathematical models in natural systems, particularly ecological systems. Most of the models presented are solved using MATLAB®. The book first covers the necessary mathematical preliminaries, including testing of stability. It then describes the modeling of systems from

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natural science, focusing on one- and two-dimensional continuous and discrete time models. Moving on to chaotic dynamics, the authors discuss ways to study chaos, types of chaos, and methods for detecting chaos. They also explore chaotic dynamics in single and multiple species systems. The text concludes with a brief discussion on models of mechanical systems and electronic circuits. Suitable for advanced undergraduate and graduate students, this book provides a practical understanding of how the models are used in current natural science and engineering applications. Along with a variety of exercises and solved examples, the text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses.

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The scarcity of radio spectrum is one of the most urgent issues at the forefront of future network research that is yet to be addressed. To address the problem of spectrum usage efficiency, the cognitive radio (CR) concept was proposed. The challenges of employing CRs include ensuring secure device operations and data transmission with advanced computing techniques. Successful development of CR systems will involve attainment of the following key objectives: Increasing the rate and capacity of CR-based networks How the power is utilized in CR hardware devices with CMOS circuits How the framework is needed in complex networks Vedic multipliers on CR networks Spatial analysis and clustering methods for traffic management To transmit a large volume of data like video compression Swarm



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optimization algorithms Resource sharing in peer-to-peer networking This book gathers the latest research works focusing on the issues, challenges, and solutions in the field of Cognitive Radio Networks, with various techniques. The chapters in this book will give solutions to the problems that Industry 4.0 faces, and will be an essential resource for scholars in all areas of the field.

Primarily intended for the undergraduate students of Automobile, Mechanical, Electrical, Aerospace engineering, and postgraduate students of Thermal Engineering and Energy Systems, the book presents the topics as per the outcome-based education system. In addition to the coverage of various alternative fuels considered for IC engines, special

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focus is emphasized on research findings in the field of alternative fuels and fuel additives including nano-additives. The stress is also given towards the exclusive coverage of advanced engine technologies such as CRDI engines, MPFI engines, GDI, HCCI and advanced energy technologies such as Hybrid Electric Vehicles (HEVs), Plug-in Hybrid Electric Vehicles (PHEVs), Battery Electric Vehicles (BEVs), Fuel Cell Vehicles (FCVs), Solar Powered Vehicles. KEY FEATURES • A detailed discussion of the research findings in alternatives fuels for IC engines • 150+ Review questions • 200+ Multiple choice questions • PowerPoint slides for the instructors Target Audience • Undergraduate students of Automobile, Mechanical, Electrical, Aerospace engineering • Postgraduate students of Thermal engineering and Energy

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systems

This textbook comprehensively covers the fundamentals and advanced concepts of thermodynamics in a single volume. It provides a detailed discussion of advanced concepts that include energy efficiency, energy sustainability, energy security, organic Rankine cycle, combined cycle power plants, combined cycle power plant integrated with organic Rankine cycle and absorption refrigeration system, integrated coal gasification combined cycle power plants, energy conservation in domestic refrigerators, and next-generation low-global warming potential refrigerants. Pedagogical features include solved problems and unsolved exercises interspersed throughout the text for better understanding.

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This textbook is primarily written for senior undergraduate students in the fields of mechanical, automobile, chemical, civil, and aerospace engineering for courses on engineering thermodynamics/thermodynamics and for graduate students in thermal engineering and energy engineering for courses on advanced thermodynamics. It is accompanied by teaching resources, including a solutions manual for instructors.

**FEATURES** Provides design and experimental problems for better understanding  
Comprehensively discusses power cycles and refrigeration cycles and their advancements  
Explores the design of energy-efficient buildings to reduce energy consumption  
Property tables, charts, and multiple-choice questions comprise appendices of the book and are available at <https://www.routledge.com/9780367646288>.

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The increasing demand for environmentally friendly materials and the need for cheaper fibres points the search in the direction of natural products such as bark, leaves, scales or shells. The aim of this book is to provide a forum to review the recent advances in the area of plant and animal-based composites and identify possible trends for further developments.

The two-volume set CCIS 827 and 828 constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies,

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NGCT 2017, held in Dehradun, India, in October 2017. The 135 full papers presented were carefully reviewed and selected from 948 submissions. There were organized in topical sections named: Smart and Innovative Trends in Communication Protocols and Standards; Smart and Innovative Trends in Computational Intelligence and Data Science; Smart and Innovative Trends in Image Processing and Machine Vision; Smart Innovative Trends in Natural Language Processing for Indian Languages; Smart Innovative Trends in Security and Privacy.

In this technology-driven era, conventional manufacturing is increasingly at risk of reaching its limit, and a more design-driven manufacturing process, additive manufacturing, might

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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 create a 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

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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.

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