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Refrigeration, Air Conditioning and Heat Pumps, Fifth Edition, provides a comprehensive introduction to the principles and practice of refrigeration. Clear and comprehensive, it is suitable for both trainee and professional HVAC engineers, with a straightforward approach that also helps inexperienced readers gain a comprehensive introduction to the fundamentals of the technology. With its concise style and broad scope, the book covers most of the equipment and applications professionals will encounter. The simplicity of the

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descriptions helps users understand, specify, commission, use, and maintain these systems. It is a must-have text for anyone who needs thorough, foundational information on refrigeration and air conditioning, but without textbook pedagogy. It includes detailed technicalities or product-specific information. New material to this edition includes the latest developments in refrigerants and lubricants, together with updated information on compressors, heat exchangers, liquid chillers, electronic expansion valves, controls, and cold storage. In addition, efficiency, environmental impact, split systems, retail refrigeration (supermarket systems and cold rooms), industrial systems, fans, air infiltration, and noise are also included. Full theoretical and practical treatment of current issues and

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trends in refrigeration and air conditioning technology Meets the needs of industry practitioners and system designers who need a rigorous, but accessible reference to the latest developments in refrigeration and AC that is supported by coverage at a level not found in typical course textbooks New edition features updated content on refrigerants, microchannel technology, noise, condensers, data centers, and electronic control

This book discusses future trends and developments in electron device packaging and the opportunities of nano and bio techniques as future solutions. It describes the effect of nano-sized particles and cell-based approaches for packaging solutions with their diverse requirements. It offers a comprehensive overview of nano particles and

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nano composites and their application as packaging functions in electron devices. The importance and challenges of three-dimensional design and computer modeling in nano packaging is discussed; also ways for implementation are described. Solutions for unconventional packaging solutions for metallizations and functionalized surfaces as well as new packaging technologies with high potential for industrial applications are discussed. The book brings together a comprehensive overview of nano scale components and systems comprising electronic, mechanical and optical structures and serves as important reference for industrial and academic researchers.

This Book Titled Basic Thermodynamics Makes An Attempt

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To Cover The Portions Keeping In View Of The Syllabus For Iiird Semester B.E., Mechanical, Prescribed By Visveswaraiah Technological University. This Book Can Also Be Useful For Students Of Other Engineering Disciplines Like B.E. In Industrial Production, Industrial Engineering Management, Automobile, Diploma In Mechanical And Ip, Iem And Automobile Engineering, Amie Etc. The Whole Book Is Written With Precise Explanations, Neat Sketches And Good Number Of Numericals. The Numerical Problems From Vtu Question Papers Have Also Been Updated.

Nanofluids are solid-liquid composite material consisting of solid nanoparticles suspended in liquid with enhanced thermal properties. This book introduces basic fluid

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mechanics, conduction and convection in fluids, along with nanomaterials for nanofluids, property characterization, and outline applications of nanofluids in solar technology, machining and other special applications. Recent experiments on nanofluids have indicated significant increase in thermal conductivity compared with liquids without nanoparticles or larger particles, strong temperature dependence of thermal conductivity, and significant increase in critical heat flux in boiling heat transfer, all of which are covered in the book. Key Features Exclusive title focusing on niche engineering applications of nanofluids Contains high technical content especially in the areas of magnetic nanofluids and dilute oxide based nanofluids Feature examples from research applications

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such as solar technology and heat pipes Addresses heat transfer and thermodynamic features such as efficiency and work with mathematical rigor Focused in content with precise technical definitions and treatment

Threat Detection and Mitigation

Precision Manufacturing

Proceedings of the First National Conference on Precision Engineering, January 12-13, 2000, IIT Madras, Chennai, India

Advances in Electronic Device Packaging

Engineering Thermodynamics

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications

This survey of thermal systems engineering combines coverage

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of thermodynamics, fluid flow, and heat transfer in one volume. Developed by leading educators in the field, this book sets the standard for those interested in the thermal-fluids market. Drawing on the best of what works from market leading texts in thermodynamics (Moran), fluids (Munson) and heat transfer (Incropera), this book introduces thermal engineering using a systems focus, introduces structured problem-solving techniques, and provides applications of interest to all engineers.

Solar Energy Conversion and Photoenergy Systems: Thermal Systems and Desalination Plants theme in five volumes is a component of Encyclopedia of Energy Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium

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of twenty one Encyclopedias. The Theme on Solar Energy Conversion and Photoenergy Systems: Thermal Systems and Desalination Plants with contributions from distinguished experts in the field, discusses solar energy, renewable energy, thermal systems, and desalination systems, some of which are already in commercial and practical applications and others are under research and testing level. The volumes provide an analysis and discussion about the reasons behind the current efforts of our society, considering both developed and developing countries, to accelerate the exploitation of the huge solar energy potential in our normal daily lives. The five volumes also provide some basic information about the solar energy potential, history and the amazing trip of a photon from its creation in the Sun until its arrival to the Earth. These five

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volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

In recent years, professionals have combined nutrition, health, and engineering sciences to develop new technologies within the food industry. As we are beginning to shift focus on how we view the health benefits of various food products, preservation and processing techniques have become much more vital. New developments regarding how we store and preserve food are emerging rapidly, making it necessary for research to be done that studies the latest scientific improvements and contemporary methods of food processing. Technological Developments in Food Preservation, Processing, and Storage is

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a collection of innovative research on the latest developments and advancements of preservation technologies and storage methods within the food processing industry. While highlighting topics including nutritional supplements, microfiltration, and thermal technology, this book is ideally designed for biologists, nutrition scientists, health professionals, engineers, government officials, policymakers, food service professionals, industry practitioners, researchers, academicians, and students.

This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing,

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industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

Nanofluids and Their Engineering Applications

Basic Thermodynamics

Select Proceedings of ICFMMP 2019

Concepts, Methodologies, Tools, and Applications

Select Proceedings of ICETME 2018

Internet of Things

The primary mission of the third edition of Handbook of Food Engineering is to provide the information needed for efficient

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design and development of processes used in the manufacturing of food products, along with supplying the traditional background on these processes. The new edition focuses on the thermophysical properties of food and the rate constants of change in food components during processing. It highlights the use of these properties and constants in process design. In addition to chapters on the properties of food and food ingredients, the book has a new chapter on nano-scale science in food processing. An additional chapter focuses on basic concepts of mass transfer in foods.

This Text-Cum-Reference Book Has Been Written To Meet The Manifold Requirement And Achievement Of The Students And Researchers. The Objective Of This Book Is To

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Discuss, Analyses And Design The Various Power Plant Systems Serving The Society At Present And Will Serve In Coming Decades India In Particular And The World In General. The Issues Related To Energy With Stress And Environment Up To Some Extent And Finally Find Ways To Implement The Outcome. Salient Features# Utilization Of Non-Conventional Energy Resources# Includes Green House Effect# Gives Latest Information S In Power Plant Engineering# Include Large Number Of Problems Of Both Indian And Foreign Universities# Rich Contents, Lucid Manner

The Autodesk-endorsed guide to real-world Revit Architecture mastery Mastering Autodesk Revit Architecture 2016 provides

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focused discussions, detailed exercises, and compelling, real-world examples to help you get the most out of the Revit Architecture 2016 software. Information is organized to reflect the way you learn and implement Revit, featuring real-world workflows, in-depth explanations, and practical tutorials that help you understand Revit and BIM concepts so you can quickly start accomplishing vital tasks. The thorough coverage makes this book an ideal study guide for those preparing for Autodesk's certification exam. The companion website features before-and-after tutorials, additional advanced content, and video on crucial techniques to help you quickly master important tasks. This comprehensive guide walks you through the software to help you begin designing quickly.

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Understand basic BIM concepts and the Revit interface
Explore templates, work-sharing, and project management workflows
Learn modeling, massing, and visualization techniques for other industries
Work with complex structures, annotation, detailing, and much more
To master what is quickly becoming an essential industry tool, *Mastering Revit Architecture 2016* is your ultimate practical companion.

Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. Geographic

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Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

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SOLAR ENERGY CONVERSION AND PHOTOENERGY
SYSTEMS: Thermal Systems and Desalination Plants-Volume
I

Applied Thermodynamics

Introduction to Thermal Systems Engineering

Techno-Societal 2020

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Micro-electronics, micro-optics and micro-mechanical components form an integral part of advanced engineering products coming under the broad area of precision engineering. This book covers theme articles and research reports covering the broad area of precision engineering. This book focuses on threats, especially contaminants, drinking water and the supply system, especially in municipalities but also in industrial and even residential settings. The safety, security, and suitability landscape can be described as dynamic and complex stemming from necessity and hence culpability due to the emerging threats and risks, vis-a-vis globalization resulting in new

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forms of contaminants being used due to new technologies. The book provides knowledge and guidance for engineers, scientists, designers, researchers, and students who are involved in water, sustainability, and study of security issues. This book starts out with basic water usage, current statistics, and an overview of water resources. The book then introduces different scenarios safety and security and areas that researchers need to focus. Following that, the book presents different types of contaminants – inadvertent, intentional, or incidental. The next section presents different methodologies of contamination sensing/detection and remediation

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strategies as per guidance and standards set globally. book then concludes with selected chapters on water management, including critical infrastructure that is critical to maintaining safe water supplies to cities and municipalities. Each chapter includes descriptive information for professionals in their respective fields. The breadth of chapters offers insights into how science (physical, natural, and social) and technology can support new developments to manage the complexity resident within the evolving threat and risk landscape. The Springer Handbook of Nanomaterials covers the description of materials which have dimension on the

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"nanoscale". The description of the nanomaterials in the Handbook follows the thorough but concise explanation of the synergy of structure, properties, processing and applications of the given material. The Handbook mainly describes materials in their solid phase; exceptions might be e.g. small sized liquid aerosols or gas bubbles in liquids. The materials are organized by their dimensionality. Zero dimensional structures collect clusters, nanoparticles and quantum dots, one dimensional are nanowires and nanotubes, while two dimensional are represented by thin films and surfaces. The chapters in these larger topics are written on a

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specific materials and dimensionality combination, e.g. ceramic nanowires. Chapters are authored by well-established and well-known scientists of the particular field. They have measurable part of publications and an important role in establishing new knowledge of the particular field.

Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Technological Developments in Food Preservation,

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Processing, and Storage

Principles of Solar Engineering, Second Edition

Journal of Heat Transfer

Autodesk Official Press

Engineering Metrology and Measurements

Approach and Applicability in Manufacturing

Market_Desc: This textbook is written for undergraduate students embarking on introductory course in Mechatronics and is also a reference book for engineers, and other practicing professionals, who are keen on understanding the

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principles of Mechatronic systems and engineering. Special Features: · Text presented in an integrated and lucid style. · Design of discrete control systems using fluid power circuits and PLCs explained. · User-friendly book with simple explanations and illustrations. · Many worked out examples and case studies. · Numerous illustrations, review questions, problems and exercises given. · Appendices, solved question and answers

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included in companion CD.· Instructor Manual CD with Powerpoint presentations and questionnaire to be made available in December 2008. About The Book: This book integrates the principles of electrical and electronic engineering with Mechatronic system application in a simple manner, and is designed for both mechanical/industrial engineers. This book enables one to design and select analog and digital circuits, microprocessor-based components,

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mechanical devices, sensors and actuators, and control devices to design modern mechatronic systems. Mechatronics - Integrated Mechanical Electronic System, consists of 16 chapters and each chapter begins with learning objectives and a brief introduction. Topics are then divided into labeled sections with explanations, examples, along with appropriate practical applications. A variety of solved problems with step by

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step solutions are included. Each chapter ends with key terms, summary of the chapter, objective type questions and exercises.

This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of

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machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 5th International Conference on Industrial Engineering (ICIE), held in

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Sochi, Russia in March 2019. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a

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tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of

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mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life

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problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community. This book presents new knowledge and recent developments in all aspects of computational techniques, mathematical modeling, energy systems, and applications of fuzzy sets and intelligent computing. The book is a

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collection of best selected research papers presented at the Second International Conference on “Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE 2021),” organized by the Department of Mathematics, Pandit Deendayal Petroleum University, in association with Forum for Interdisciplinary Mathematics. The book provides innovative works of researchers, academicians, and students

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*in the area of interdisciplinary
mathematics, statistics, computational
intelligence, and renewable energy.*

*Proceedings of the 5th International
Conference on Industrial Engineering
(ICIE 2019)*

Energy and Sustainability II

*Thermodynamics, Fluid Mechanics, and
Heat Transfer*

TEXTBOOK OF FINITE ELEMENT ANALYSIS

*Advances in Metrology and Measurement
of Engineering Surfaces*

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*Mastering Autodesk Revit Architecture
2016*

This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate Students Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is

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Sufficient For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In Si System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical Problems Of Solved And Unsolved Questions With Answers. The book retains its strong conceptual approach, clearly examining the mathematical

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underpinnings of FEM, and providing a general approach of engineering application areas. Known for its detailed, carefully selected example problems and extensive selection of homework problems, the author has comprehensively covered a wide range of engineering areas making the book appropriate for all engineering majors, and underscores the wide range of use FEM has in the professional world

Thermal Engineering
Firewall Media
Emerging Trends in Mechanical Engineering
Select Proceedings of ICETME 2018
Springer Nature
The concept of Internet of Things has

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silently existed since the late nineteenth century but in the current decade expectations and excitement has peaked. However not many have understood the profound change that it can usher in. How big this change can be and how it can transform our working!! This book aims to bring in this realization with illustrative and practical case studies with comprehensive concepts. From beginners to practitioners in the field of academics or industry, it serves as a comprehensive yet easy to comprehend source of information on the multiple facets of IoT. Simplistic but comprehensive introduction of

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the facets of primarily the industrial IoT
Practical adoption cases explaining the Core
technology stack and business applications
Comprehensive view of current technologies
which complete the IoT delivery ecosystem,
followed by overview of IoT enabled new
business models. Realistic view of how
industrial firms can evolve into the next
stage of maturity along with determinants
influencing this transformation since
manufacturing is envisioned to be a key
segment to adopt and benefit from IoT.
Detailed analysis of IoT benefits for the
universal triad- energy management, logistics

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optimization and distribution channel management. A full-fledged case study on Adoption of Green manufacturing using IoT. Real world example of gauging End User perception using different models which is important for a successful adoption of IoT. A futuristic visionary view of IoT as comprehended based on evolution of technology and platforms, and finally analysis of the extremely crucial concepts of security, privacy and governance.

Basics of Fluid Mechanics

Proceedings of the Second International Conference, MMCITRE 2021

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**Precision Engineering, COPEN 2000
Mathematical Modeling, Computational
Intelligence Techniques and Renewable Energy
Springer Handbook of Nanomaterials
Refrigeration, Air Conditioning and Heat
Pumps**

Intended as a textbook for “applied” or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the

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material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of

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design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry. Laser powder bed fusion of metals is a technology that makes use of

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a laser beam to selectively melt metal powder layer-by-layer in order to fabricate complex geometries in high performance materials. The technology is currently transforming aerospace and biomedical manufacturing and its adoption is widening into other industries as well, including automotive, energy, and traditional manufacturing. With an increase in design freedom brought to bear by additive manufacturing, new opportunities are emerging for designs not possible previously and in material systems that now provide sufficient performance to be qualified in end-use mission-critical applications. After decades of research and development, laser powder bed fusion is now enabling a new era of digitally driven manufacturing. Fundamentals of Laser Powder Bed Fusion of Metals will provide the fundamental principles in a broad range of topics relating to metal laser powder bed fusion. The target

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audience includes new users, focusing on graduate and undergraduate students; however, this book can also serve as a reference for experienced users as well, including senior researchers and engineers in industry. The current best practices are discussed in detail, as well as the limitations, challenges, and potential research and commercial opportunities moving forward. Presents laser powder bed fusion fundamentals, as well as their inherent challenges Provides an up-to-date summary of this advancing technology and its potential Provides a comprehensive textbook for universities, as well as a reference for industry Acts as quick-reference guide

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

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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 advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, 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,

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Engineering and Technology for reporting innovations at different levels.

*Engineering Fundamentals of Drying and Storage
Volume II*

Building Construction Handbook

Bio and Nano Packaging Techniques for Electron Devices

Emerging Trends in Mechanical Engineering

A HEAT TRANSFER TEXTBOOK

Precision Manufacturing provides an introduction to precision engineering for manufacturing. With an emphasis on design and performance of precision machinery for manufacturing - machine tool elements and

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structure, sources of error, precision machining processes and process models sensors for process monitoring and control, metrology, actuators, and machine design. This book will be of interest to design engineers, quality engineers and manufacturing engineers, academics and those who may or may not have previous experience with precision manufacturing, but want to learn more.

This book presents the select proceedings of the International Conference on Functional

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Material, Manufacturing and Performances (ICFMMP) 2019. The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive, bio-manufacturing, chemicals, electronics, energy, construction materials, and other engineering applications. The contents focus on cutting-edge instruments, methods and standards in the field of metrology and mechanical properties of advanced materials. Given the scope of the

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topics, this book can be useful for students, researchers and professionals interested in the measurement of surfaces, and the applications thereof.

Drying and storage are two significant unit operations in the food industry and are applied to both raw and processed products including cereal grains, oilseeds, legumes, flour, noodle, coffee, and cornstarch. The common characteristic of these materials is that all of them are hygroscopic and contain water. The hygroscopic properties are

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influenced by their physical properties, which are influenced by their storage environments such as bins, warehouses, bunkers, and temporary storage structures. This book focuses on the storage and drying of bulk products in these storage structures. On many occasions in our work with the grain storage and drying personnel especially our graduate students and industry contacts, we found a book explaining the fundamental principles of grain storage and drying is needed. Therefore, the primary objective of

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this book is to help readers understand the fundamental principles of grain storage and drying and develop a well-informed approach to solve grain storage and drying problems. Technologies for grain storage and drying are advanced through research; therefore, literature review and background on each topic has also been included. The book is generally intended for grain storage and drying students, engineers, and scientists. As reflected in the contents which are presented at several levels of depth, this book will serve

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well readers with different backgrounds and interests. An effort has been made to allow for independent reading of different sections, and to make a large part of this work accessible to a non-mathematical audience. The authors have combined their experience of teaching grain storage and drying to undergraduate and graduate students in the faculties of Agricultural and Food Sciences and Engineering. Material in the book is organized into broad topic areas: physical properties (Chapters 1 and 2), grain

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temperature and moisture (Chapters 2 and 6), water in biomaterials and relationship with its environment (Chapter 3), fundamental principles of aeration, drying, and rewetting (Chapter 4), and mathematical modelling of isotherm, drying, and re-wetting (Chapter 5). We hope our readers will benefit from the contents of the book for many decades.

The way in which our society exists, operates and develops is strongly influenced by the way in which energy is produced and

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consumed. No process in Industry can be performed without sufficient supply of energy, and without Industry there can be no production of commodities on which the existence of modern Society depends. The energy systems evolved over a long period and more rapidly over the last two centuries, as a response to the requirements of Industry and Society, starting from combustion of fuels to exploiting nuclear energy and renewable resources. It is clear that the evolution of the energy systems is a

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continuous process, which involves constant technological development and innovation. The presentation on the Second International Conference includes: Renewable Energy Technologies; Energy Management; Energy Policies; Energy and the Environment; Energy Analysis; Energy Efficiency; Energy Storage and Management.

Fundamentals of Laser Powder Bed Fusion of Metals

***Handbook of Food Engineering, Third Edition
Water Safety, Security and Sustainability***

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Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2 A Computer Approach (SI Units Version) Textbook of Thermal Engineering

This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive solar applications, detoxification and

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biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors.

(in S.I. Units)

MECHATRONICS: INTEGRATED MECHANICAL
ELECTRONIC SYSTEMS (With CD)

Irrigation and Water Power Engineering

A Textbook of Strength of Materials

Power Plant Engineering

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An Introduction to the Finite Element Method