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Key Concepts have been given at the beginning of each chapter to facilitate thorough revision and recall. Contains large number of Solved Examples and Practice Questions

Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering

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statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook,

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pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with

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answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case

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studies, using real data sets * Avoids unnecessary theory

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth,

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thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous

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Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

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

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book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field.

Select Proceedings of ICFMMP 2019

Fundamentals of Mathematical Statistics

Aluminum Upcycled

Applied Materials Science

Proceedings of SSIC 2021

Management Practices for Engaging a

Diverse Workforce

Raising fascinating questions of consumption, environment, and desire, Upcycling Aluminum is for

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anyone interested in industrial and environmental history, discard studies, engineering, product design, music history, or antiques.

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn:

1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually

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taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print

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editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

"Presents several advanced topics including fourth-order tensors, differentiation of tensors, exponential and logarithmic tensors, and their application to nonlinear elasticity"--

Material Science New Age International

The Materials Science of Thin Films

The Design and Manufacture of Medicines

Addressing Environmental Issues By Dissolving Gender

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And Colonial Barriers

Manufacturing Process

CLIMATE CHANGE & HIMALAYAN INFORMATICS

Geodynamic process during the rapid growth of Himalaya has holistic imprints of Climate Change in this region. "Climate Change & Himalayan Informatics" is an account of dedicated contribution for the above imprints. Impact of climate change is examined in this book for the ongoing process of rapid urbanization of the hinterlands of Himalaya. It consists four

sessions and seventeen chapters. Mass balance of glaciers in ChandrabasinofHimalayais presented as a predictive tool for spatially distributed estimates of mass balance of glaciers. An effective tool to identify and locate multiple natural hazards due to climate change inHimalayaespecially landslides and glacial lake outburst flood (GLOF) is part of the book. Impacts of climate change on cropping strategies by mountain communities are ascribed in the session “socio-economic perspectives”. Information

on ecologically and economically important plant species in Himalaya that have greater tolerance in drought, discussed in this book, is significant in the perspectives of global warming. A specific species is identified as an indicator of climate change for Eastern Himalaya. Climatic impacts on different regional eco systems of Himalaya had implications on ecological, cultural and socio economic process of the region. Multidimensional decision support system is essential for mitigation and adaptation for such implications. Present book consists

studies from north to eastern part of Himalaya. This will be beneficial to researchers, student, managers and administrators associated with Mountain ecosystem and Climate Change.

Life originated and evolved in water. Later the The tropical countries where the need to under plants moved out of water, conquered the land and stand the natural ecosystems is far greater because became dominant over it. The evolution through they are under intensive pressure from develop the millennia resulted in enormous complexity

of ment from a rapidly growing human population, form, tissue organisation, reproductive mechan have generally devoted much less attention to the isms and specialisation of taxa in different niches. studies of aquatic ecosystems. The Indian subconti At some stage during evolution, some plants devel nent is a well-recognised biogeographic region with oped appropriate morphological and physiological a distinct geological history, climate, soils and adaptations and reverted back to the aquatic and/ biota. It is also distinct in the history of

human civilisation and cultures which have a profound bear or semi-aquatic habitat. These plants, perhaps with the exception of a few in on the natural ecosystems. This book is in with beautiful flowers, have attracted little attention to provide the state of our knowledge of the tition from mankind. The fact that humans evolved aquatic and semi-aquatic vegetation in the inland in a tropical forest or savanna environment appears freshwaters of the subcontinent. The book covers responsible for a permanent bias in human atti only the

***herbaceous vegetation, since there is al
tudes towards land and its biota.***

***Nanostructured materials are emerging as a
new class of materials that exhibit unique
microstructures and enhanced mechanical
performance. As an outcome of this, these
materials have attracted considerable
attention in scientific communities all over
the world. There is continuous research to
facilitate product development, thereby
improving product quality and reliability in
industry. This volume is devoted to novel
architectures at the nano-level with an***

***emphasis on new synthesis and characterization methods. Special emphasis is given to new applications of nanostructures and nanocomposites in various fields, such as nano-electronics, energy conversion, catalysis, drug delivery and nano-medicine. The chapters are divided into sections focusing on:
Nanoparticles Assembly and Nanostructured Materials
Nanocomposites Properties
Nanostructured Materials for Biomedical Applications
Compendium of Hydrogen Energy, Volume***

2: Hydrogen Storage, Distribution and Infrastructure focuses on the storage and transmission of hydrogen. As many experts believe the hydrogen economy will, at some point, replace the fossil fuel economy as the primary source of the world's energy, this book details hydrogen storage in pure form, including chapters on hydrogen liquefaction, slush production, as well as underground and pipeline storage. Other sections in the book explore physical and chemical storage, including environmentally sustainable methods of hydrogen production

***from water, with final chapters dedicated to hydrogen distribution and infrastructure. Covers a wide array of methods for storing hydrogen, detailing hydrogen transport and the infrastructure required for transition to the hydrogen economy Written by leading academics in the fields of sustainable energy and experts from the world of industry Part of a very comprehensive compendium which looks at the entirety of the hydrogen energy economy
Data Engineering for Smart Systems
International Books in Print***

***PISA Take the Test Sample Questions from
OECD's PISA Assessments
An Open Introduction
Tools to Enhance Workplace Culture
Current Science***

This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest

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developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their inter-disciplinary branches. A variety of

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materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail. Providing a comprehensive introduction to the basics of Internal Combustion Engines, this book is suitable for: Undergraduate-level courses in mechanical engineering, aeronautical engineering, and automobile engineering. Postgraduate-level courses (Thermal Engineering) in mechanical engineering. A.M.I.E. (Section B) courses in

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mechanical engineering. Competitive examinations, such as Civil Services, Engineering Services, GATE, etc. In addition, the book can be used for refresher courses for professionals in auto-mobile industries. Coverage Includes Analysis of processes (thermodynamic, combustion, fluid flow, heat transfer, friction and lubrication) relevant to design, performance, efficiency, fuel and emission requirements of internal combustion engines. Special topics such as reactive systems, unburned and burned mixture

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charts, fuel-line hydraulics, side thrust on the cylinder walls, etc. Modern developments such as electronic fuel injection systems, electronic ignition systems, electronic indicators, exhaust emission requirements, etc. The Second Edition includes new sections on geometry of reciprocating engine, engine performance parameters, alternative fuels for IC engines, Carnot cycle, Stirling cycle, Ericsson cycle, Lenoir cycle, Miller cycle, crankcase ventilation, supercharger controls and homogeneous charge compression

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ignition engines. Besides, air-standard cycles, latest advances in fuel-injection system in SI engine and gasoline direct injection are discussed in detail. New problems and examples have been added to several chapters. Key Features Explains basic principles and applications in a clear, concise, and easy-to-read manner Richly illustrated to promote a fuller understanding of the subject SI units are used throughout Example problems illustrate applications of theory End-of-chapter review questions and problems

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help students reinforce and apply key concepts Provides answers to all numerical problems

Designing molecules and materials with desired properties is an important prerequisite for advancing technology in our modern societies. This requires both the ability to calculate accurate microscopic properties, such as energies, forces and electrostatic multipoles of specific configurations, as well as efficient sampling of potential energy surfaces to obtain corresponding macroscopic

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properties. Tools that can provide this are accurate first-principles calculations rooted in quantum mechanics, and statistical mechanics, respectively. Unfortunately, they come at a high computational cost that prohibits calculations for large systems and long time-scales, thus presenting a severe bottleneck both for searching the vast chemical compound space and the stupendously many dynamical configurations that a molecule can assume. To overcome this challenge, recently there have been increased

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efforts to accelerate quantum simulations with machine learning (ML). This emerging interdisciplinary community encompasses chemists, material scientists, physicists, mathematicians and computer scientists, joining forces to contribute to the exciting hot topic of progressing machine learning and AI for molecules and materials. The book that has emerged from a series of workshops provides a snapshot of this rapidly developing field. It contains tutorial material explaining the relevant foundations needed in chemistry,

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physics as well as machine learning to give an easy starting point for interested readers. In addition, a number of research papers defining the current state-of-the-art are included. The book has five parts (Fundamentals, Incorporating Prior Knowledge, Deep Learning of Atomistic Representations, Atomistic Simulations and Discovery and Design), each prefaced by editorial commentary that puts the respective parts into a broader scientific context. This book presents select proceedings of the

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International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser

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confocal scanning fluorescence microscopy, and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

Proceedings of iCADMA 2020

Continuum Mechanics

Advanced Electrical and Electronics Materials

Introduction to Materials Science for Engineers

Applications of Engineering Materials in

Structural, Electronics, Thermal, and Other

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Industries

Applied Mechanics Reviews

Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form.

The International Scientific and Technical Conference "Integrated Computer Technologies in Mechanical Engineering : Synergetic Engineering" (ICTM) was established by National Aerospace University Kharkiv Aviation Institute. The Conference ICTM2021 was held in Kharkiv, Ukraine, during October 28-29, 2021. During

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this conference, technical exchanges between the research community were carried out in the forms of keynote speeches, panel discussions, as well as special session. In addition, participants were treated to a series of receptions, which forge collaborations among fellow researchers. ICTM2021 received 203 papers submissions from different countries. Target Groups ICTM was formed to bring together outstanding researchers and practitioners in the field of information technology in the design and manufacture of engines; creation of rocket space systems, aerospace engineering from all over the world to share their experience and expertise.

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Encyclopedia of Renewable and Sustainable Materials provides a comprehensive overview, covering research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO₂) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and

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information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials Materials are the foundation of technology. As such,

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most universities provide engineering undergraduates with the fundamental concepts of materials science, including crystal structures, imperfections, phase diagrams, materials processing, and materials properties. Few, however, offer the practical, applications-oriented background that their stud

Processes and Applications

Advances in Engineering Design

Proceedings of ICTSES 2018

Material Science

Advances in Materials Processing and Manufacturing Applications

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Proceedings of the Indian Science Congress

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the

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patient. Now in its fourth edition, this best-selling textbook in pharmaceuticals has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text

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and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the

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children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.

Chemical metallurgy is a well founded and fascinating branch of the wide field of metallurgy. This book provides detailed information on both the first steps of separation of desirable minerals and the subsequent mineral processing operations. The complex chemical processes of extracting various elements through

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hydrometallurgical, pyrometallurgical or electrometallurgical operations are explained. In the choice of material for this work, the author made good use of the synergy of scientific principles and industrial practices, offering the much needed and hitherto unavailable combination of detailed treatises on both compiled in one book.

This book comprises select peer-reviewed proceedings of the International Conference Trending Moments and Steer Forces – Civil Engineering Today (TMSF

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2019). It presents latest research in different domains of civil engineering like structural and concrete engineering, geotechnical engineering, transportation engineering, environmental engineering, and construction technology and management. The contents also include miscellaneous applications of civil engineering in a wide range of technical and societal problems making use of engineering principles and relational data structures involving measurement sciences. Given the range of topics covered, this

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book can be useful for students, researchers as well as practitioners working in the field of civil engineering. This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMMP) 2019. The book provides the state-of-the-art research, development, and commercial prospective of recent advances in materials science and engineering. The contents cover various synthesis and fabrication routes of functional and smart materials for

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applications in mechanical engineering, manufacturing, metrology, nanotechnology, physics, chemical and biological sciences, civil engineering, food science among others. It also provides the evolutionary behavior of materials science for industrial applications. This book will be a useful resource for researchers as well as professionals interested in the highly interdisciplinary field of materials science.

Principles and Practice

Ecology and management of aquatic

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vegetation in the Indian subcontinent

Select Proceedings of TMSF 2019

Integrated Computer Technologies in

Mechanical Engineering -- 2021

Intelligent Computing Techniques for Smart

Energy Systems

Sample Questions from OECD's PISA

Assessments

Prepared as a textbook complete with problems after each chapter, specifically intended for classroom use in universities. This book presents selected papers from the International Conference on Advances in

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Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 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.

The Book Has Been Designed To Cover All Relevant Topics In B.E.

(Mechanical/Metallurgy / Material Science /

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Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), Amie And Diploma Students. Students Appearing For Gate, Upsc, Net, Slet And Other Entrance Examinations Will Also Find Book Quite Useful. In Nineteen Chapters, The Book Deals With Atomic Structure, The Structure Of Solids; Crystal Defects; Chemical Bonding; Diffusion In Solids; Mechanical Properties And Tests Of Materials; Alloys, Phase Diagrams And Phase Transformations; Heat Treatment;

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Deformation Of Materials; Oxidation And Corrosion; Electric, Magnetic, Thermal And Optical Properties; Semiconductors; Superconductivity; Organic Materials; Composites; And Nanostructured Materials. Special Features: * Fundamental Principles And Applications Are Discussed With Explanatory Diagrams In A Clear Way. * A Full Coverage Of Background Topics With Latest Development Is Provided. * Special Chapters On Nanostructured Materials, Superconductivity, Semiconductors, Polymers, Composites,

Organic Materials Are Given . * Solved Problems, Review Questions, Problems, Short-Question Answers And Typical Objective Type Questions Alongwith Suggested Readings Are Given With Each Chapter.

The growth and development witnessed today in modern science, engineering, and technology owes a heavy debt to the rare, refractory, and reactive metals group, of which niobium is a member. Extractive Metallurgy of Niobium presents a vivid account of the metal through its

comprehensive discussions of properties and applications, resources and resource processing, chemical processing and compound preparation, metal extraction, and refining and consolidation. Typical flow sheets adopted in some leading niobium-producing countries for the beneficiation of various niobium sources are presented, and various chemical processes for producing pure forms of niobium intermediates such as chloride, fluoride, and oxide are discussed. The book also explains how to liberate the metal from its intermediates

and describes the physico-chemical principles involved. It is an excellent reference for chemical metallurgists, hydrometallurgists, extraction and process metallurgists, and minerals processors. It is also valuable to a wide variety of scientists, engineers, technologists, and students interested in the topic.

An Annual Bibliography

A Compact And Comprehensive Book Of IIT

Foudation Mathematic VII

Nuclear Science Abstracts

Compendium of Hydrogen Energy

Hydrogen Storage, Distribution and Infrastructure Nanotechnology-Driven Engineered Materials

Materials science and engineering professionals from around the world gathered at the TMS 2011 Annual Meeting & Exhibition to network, present the latest research and industrial applications, and collaborate on ways to further innovation and advancement in the field. The meeting featured more than 70 symposia and some 3,000 presentations. The Supplemental TMS 2011 Proceedings collect some of the most important

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papers presented at the meeting, giving readers the opportunity to benefit from the latest discoveries in mineral, metals, and materials research. Topics cover everything from minerals processing and primary metals production to basic research and advanced materials applications. Moreover, you'll learn about the latest research efforts within the industry to develop sustainable, environmentally friendly products and processes.

This unique volume shows how to tackle the challenges of diversity in the workplace. It addresses the need to keep the workforce

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engaged while taking into consideration the diverse backgrounds of employees. The book explores 12 themes of workforce diversity and culture, including differences of race, religion, gender, sexuality, income class, education level, marital status, generation/age, physical ability, and more. Focusing on the benefits of engaging a diverse workforce, the volume considers the issue through the different stages of the human resource process, including recruitment, selection, performance appraisal, demand forecasting, supply forecasting, job description and specification, job analysis and evaluation,

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training and development, career planning and development, succession planning, etc.

Employing an abundance of case studies, the volume enables readers to comprehend what it means to have a diverse workforce and how to engage such a workforce for the betterment of the employees as well as the employer. The volume acts as a textbook for courses on diversity in human resource management as well as a valuable resource for HRM and other management professionals. The discussions and questions sections will be useful for faculty, and the short case studies are designed to keep

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students interested and engaged.

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

This Text Provides A Balanced And Current Treatment Of The Full Spectrum Of Engineering Materials, Covering All The Physical Properties, Applications And Relevant Properties Associated With The Subject. It Explores All The Major Categories Of Materials While Offering Detailed Examinations Of A Wide Range Of New Materials

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With High-Tech Applications.

Aulton's Pharmaceuticals

New Insights

Encyclopedia of Renewable and Sustainable Materials

FUNDAMENTALS OF INTERNAL COMBUSTION ENGINES

Recent Trends in Civil Engineering

Advances in Engineering Materials

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence

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consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval. Synergetic Engineering

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Extractive Metallurgy of Niobium
Advances in Materials Science and Engineering
Statistics and Probability for Engineering
Applications
Chemical Metallurgy
Discrete Mathematics