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KEY=APPLIED - HEATH MARISA

ENGINEERING MATERIALS AND METALLURGY

S. Chand Publishing This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprise five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

APPLIED GEOLOGY (FOR ANNA)

Vikas Publishing House Applied Geology is a multidisciplinary subject that interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. This book, entitled Applied Geology, is the only one of its kind in the Indian market that caters to the needs of all these subjects. This book covers all aspects of Applied Geology and is intended to serve BTech students. A plethora of examples and case studies relevant to the Indian context have been included for better understanding of the geological challenges faced by engineers.

FUNDAMENTALS OF LASER POWDER BED FUSION OF METALS

Elsevier Laser powder bed fusion of metals is a technology that makes use of 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 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

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

RESEARCH AND DEVELOPMENT IN PHYSICS & MATHEMATICAL SCIENCES

A TEXTBOOK OF STRENGTH OF MATERIALS

(IN S.I. UNITS)

Laxmi Publications

DESIGN OF JIGS, FIXTURES AND PRESS TOOLS

Springer Nature This textbook is aimed at providing an introduction to the subject for undergraduate students studying mechanical and manufacturing engineering at most universities. Many of the universities prescribe a syllabus that contains both Design of Jigs and Fixtures, and Design of Press Tools in a single semester course. Keeping the above in mind, this book is designed in two parts. Part-I deals with Jigs and Fixtures and Part-II is earmarked exclusively for the study of Press Tools. Both these subjects are built progressively in successive chapters. A separate appendix, in each part, provides short answer questions with answers, which will help the students in clarifying doubts and strengthen their knowledge. The explanatory notes and illustrations provided in the book will serve as an aid for learning. End-of-chapter questions and answers will prove useful for self study. This textbook will be extremely useful for the students and practicing engineers studying mechanical, manufacturing, and production engineering.

THE EQUATIONS OF MATERIALS

Oxford University Press, USA This primer describes important equations of materials and the scientists who derived them. It provides an excellent introduction to the subject by making the material accessible and enjoyable. The book is dedicated to a number of propositions: 1. The most important equations are often simple and easily explained; 2. The most important equations are often experimental, confirmed time and again; 3. The most important equations have been derived by remarkable scientists who lived interesting lives. Each chapter covers a single equation and materials subject, and is structured in three sections: first, a description of the equation itself; second, a short biography of the scientist after whom it is named; and third, a discussion of some of the ramifications and applications of the equation. The biographical sections intertwine the personal and professional life of the scientist with contemporary political and scientific developments. Topics included are: Bravais lattices and crystals; Bragg's law and diffraction; the Gibbs phase rule and phases; Boltzmann's equation and thermodynamics; the Arrhenius equation and reactions; the Gibbs-Thomson equation and surfaces; Fick's laws and diffusion; the Scheil equation and solidification; the Avrami equation and phase transformations; Hooke's law and elasticity; the Burgers vector and plasticity; Griffith's equation and fracture; and the Fermi level and electrical properties. The book is written for students interested in the manufacture, structure, properties and engineering application of materials such as metals, polymers, ceramics, semiconductors and composites. It requires only a working knowledge of school maths, mainly algebra and simple calculus.

ENGINEERING MECHANICS

Laxmi Publications

A TEXTBOOK OF ENGINEERING MATHEMATICS (FOR FIRST YEAR ,ANNA UNIVERSITY)

Laxmi Publications

LIBRARY AND INFORMATION SCIENCE ANNUAL

Cooper Square Pub

POPULAR SCIENCE

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

ADVANCED MATERIALS & PROCESSES

RESOURCES IN EDUCATION

PYTHON DATA SCIENCE HANDBOOK

ESSENTIAL TOOLS FOR WORKING WITH DATA

"O'Reilly Media, Inc." For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

ASK A MANAGER

HOW TO NAVIGATE CLUELESS COLLEAGUES, LUNCH-STEALING BOSSES, AND THE REST OF YOUR LIFE AT WORK

Ballantine Books From the creator of the popular website Ask a Manager and New York's work-advice columnist comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There's a reason Alison Green has been called "the Dear Abby of the work world." Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don't know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You'll learn what to say when • coworkers push their work on you—then take credit for it • you accidentally trash-talk someone in an email then hit "reply all" • you're being micromanaged—or not being managed at all • you catch a colleague in a lie • your boss seems unhappy with your work • your cubemate's loud speakerphone is making you homicidal • you got drunk at the holiday party Praise for Ask a Manager "A must-read for anyone who works . . . [Alison Green's] advice boils down to the idea that you should be professional (even when others are not) and that communicating in a straightforward manner with candor and kindness will get you far, no matter where you work."—Booklist (starred review) "The author's friendly, warm, no-nonsense writing is a pleasure to read, and her advice can be widely applied to relationships in all areas of readers' lives. Ideal for anyone new to the job market or new to management, or anyone hoping to improve their work experience."—Library Journal (starred review) "I am a huge fan of Alison Green's Ask a Manager column. This book is even better. It teaches us how to deal with many of the most vexing big and little problems in our workplaces—and to do so with grace, confidence, and a sense of humor."—Robert Sutton, Stanford professor and author of The No Asshole Rule and The Asshole Survival Guide "Ask a Manager is the ultimate playbook for navigating the traditional workforce in a diplomatic but firm way."—Erin Lowry, author of Broke Millennial: Stop Scraping By and Get Your Financial Life Together

COMMUNICATION ENGINEERING

Modulation Systems Time and frequency domain representation of signals, Amplitude modulation and demodulation, Frequency modulation and demodulation, Super heterodyne radio receiver. Frequency division multiplexing, Pulse width modulation. Transmission Medium Transmission lines - Types, Equivalent circuit, Losses, Standing waves, Impedance matching, Bandwidth: Radio propagation - Ground wave and space wave propagation, Critical frequency maximum usable frequency, Path loss, White Gaussian noise. Digital Communication Pulse code modulation, Time division multiplexing, Digital T-carrier system. Digital radio system. Digital modulation: Frequency and phase shift keying - Modulator and demodulator, Bit error rate calculation. Data Communication and Network Protocol Data communication codes, Error control, Serial and parallel interface, Telephone network, Data modem, ISDN. LAN. ISO-OSI seven layer architecture for WAN. Satellite and Optical Fibre Communications Orbital

satellites, Geostationary satellites, Look angles, Satellite system link models, satellite system link equations: advantages of optical fibre communication - Light propagation through fibre, Fibre loss, Light sources and detectors.

THE JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY

INVESTIGATING SPECIALIZED DISCOURSE

Peter Lang Maurizio Gotti analyses the various features of specialized discourse in order to assess its degree of specificity and diversification, as compared to general language. Prior to any analysis of such traits, the notion of specialized discourse and its distinctive properties are clarified.

DIGITAL HERITAGE

PROGRESS IN CULTURAL HERITAGE. DOCUMENTATION, PRESERVATION, AND PROTECTION 5TH INTERNATIONAL CONFERENCE, EUROMED 2014, LIMASSOL, CYPRUS, NOVEMBER 3-8, 2014, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 5th International Conference on Digital Heritage, EuroMed 2014, held in Limassol, Cyprus, in November 2014. The 84 full and 51 short papers presented were carefully reviewed and selected from 438 submissions. They focus on the interdisciplinary and multi-disciplinary research concerning cutting edge cultural heritage informatics, -physics, chemistry and engineering and the use of technology for the representation, documentation, archiving, protection, preservation and communication of Cultural Heritage knowledge.

THE TEXAS BOOK TWO

MORE PROFILES, HISTORY, AND REMINISCENCES OF THE UNIVERSITY

University of Texas Press In every corner of the sprawling enterprise that is the University of Texas at Austin, you will find teaching, research, artistic creation, and sports achievement that are among the best in the world. Mandated by the Texas constitution to be "a university of the first class," UT Austin strives for excellence across the curriculum, from the most traditional of liberal arts disciplines to the cutting edge of science and technology. For Texans interested in progress, whether students of the university or members of the public, there are few pleasures greater than uncovering the intellectual treasures that can be found by exploring the university's "Forty Acres" and all that they contain. The Texas Book, edited by Richard A. Holland and published in 2006, offered the first in-depth exploration of UT's history and traditions through a collection of profiles, histories, and reminiscences. Now The Texas Book Two continues the story, with a variety of contributors recalling particular events and personalities that have helped shape the university and the people whose lives it has touched. Twenty-one essays present personalities such as John A. Lomax, Anna Hiss, J. R. Parten, Harvey Penick, John W. Hargis, and Jorge Luis Borges; accounts of legislative battles and debates over campus architecture; histories of crown jewels such as the McDonald Observatory and Austin City Limits; and the reminiscences of Barbara Smith Conrad, Sam Hurt, and Cat Osterman, among others.

CONVEX OPTIMIZATION

Cambridge University Press A comprehensive introduction to the tools, techniques and applications of convex optimization.

FOOD AND NUTRITION INFORMATION AND EDUCATIONAL MATERIALS CENTER CATALOG

TANCET MCA

Sura Books

BACKPACKER

Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

BARK-WATER INTERACTIONS

Frontiers Media SA

BANKING AWARENESS

Arihant Publications India limited 1. The book is the complete Preparatory Guide for Banking Awareness 2. Entire syllabus has been split into 11 chapter 3. Each chapter contains theories and solved problems for revision 4. Unsolved problems have been accompanied after every chapter 5. Banking Glossary have provided after every chapter 6. 5 Practice Sets have been given for self-analysis The updated edition of "Banking Awareness" serves as an extremely valuable asset for aspirants who are preparing for banking recruitment exams. Especially designed according to the latest pattern, this book is divided into 18 chapters, giving proper coverage in Economy, Banking and Finance Sector, etc. All the relevant & important chapters & topics on Banking Awareness are covered in the book concisely in a reader-friendly manner. Most of the practice questions given in the book are incorporated from various previous years' question papers & solved Papers in a Chapterwise manner. 3 Practice sets, abbreviation and glossary are given at the end. This book not only serves as study guide but also as a practice tool to test your banking knowledge. It is highly recommended for the aspirants to sharpen their Problem solving skills with intensive practice of numerous questions provided in the book, and prepare them to face their exam with confidence. TOC Indian Banking and its History, Indian Banking Structure, Reserve Bank of India, Banking Regulation System, Banking Innovation in India, Banking Services in India, Financial Reforms in Banks, Banking Committees and Financial Standards, Financial Institutions in India, Money and Financial Market, Capital Market, Insurance and NBFCs, Tax System in India, Public Finance and Budget, Indian Economy, Industry and Trade, International Organisation and World Bank, Important Government Schemes, Practice Sets (1-3), Abbreviation, Glossary, Financial and Banking Current Affairs.

NEW TECHNICAL BOOKS

A TEXTBOOK OF ENGINEERING CHEMISTRY

S. Chand Publishing Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

JOURNAL OF EDUCATION

THE JOURNAL OF EDUCATION

CAA2015. KEEP THE REVOLUTION GOING

PROCEEDINGS OF THE 43RD ANNUAL CONFERENCE ON COMPUTER APPLICATIONS AND QUANTITATIVE METHODS IN ARCHAEOLOGY

Archaeopress Publishing Ltd This volume brings together all the successful peer-reviewed papers submitted for the proceedings of the 43rd conference on Computer Applications and Quantitative Methods in Archaeology that took place in Siena (Italy) from March 31st to April 2nd 2015.

MATERIALS WORLD

THE JOURNAL OF THE INSTITUTE OF MATERIALS

MICROBIOLOGY

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

POPULAR EDUCATOR

FABRICATE 2020

UCL Press Fabricate 2020 is the fourth title in the FABRICATE series on the theme of digital fabrication and published in conjunction with a triennial conference (London, April 2020). The book features cutting-edge built projects and work-in-progress from both academia and practice. It brings together pioneers in design and making from across the fields of architecture, construction, engineering, manufacturing, materials technology and computation. Fabricate 2020 includes 32 illustrated articles punctuated by four conversations between world-leading experts from design to engineering, discussing themes such as drawing-to-production, behavioural composites, robotic assembly, and digital craft.

PUBLISHER AND BOOKSELLER

Vols. for 1871-76, 1913-14 include an extra number, The Christmas bookseller, separately paged and not included in the consecutive numbering of the regular series.

THE ACADEMY AND LITERATURE

FUNDAMENTALS OF MATERIALS SCIENCE AND ENGINEERING: AN INTEGRATED APPROACH, 5TH EDITION

Wiley Global Education Fundamentals of Materials Science and Engineering takes an integrated approach to the sequence of topics – one specific structure, characteristic, or property type is covered in turn for all three basic material types: metals, ceramics, and polymeric materials. This presentation permits the early introduction of non-metals and supports the engineer's role in choosing materials based upon their characteristics. Using clear, concise terminology that is familiar to students, Fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background.

ELECTROMAGNETIC INTERFERENCE AND COMPATIBILITY

MDPI Recent progress in the fields of Electrical and Electronic Engineering has created new application scenarios and new Electromagnetic Compatibility (EMC) challenges, along with novel tools and methodologies to address them. This volume, which collects the contributions published in the "Electromagnetic Interference and Compatibility" Special Issue of MDPI Electronics, provides a vivid picture of current research trends and new developments in the rapidly evolving, broad area of EMC, including contributions on EMC issues in digital communications, power electronics, and analog integrated circuits and sensors, along with signal and power integrity and electromagnetic interference (EMI) suppression properties of materials.