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Amorish Banerjee, B. Gangadhara Prusty, Saroj Bhattacharyya, Rate-dependent mechanical strength and flow behaviour of dual-phase high carbon steel at elevated temperatures: An experimental investigation, Materials Science and Engineering: A, 10.1016/j.msea.2018.12.002, 744, (224-234), (2019).

G. E. Dieter. Mechanical Metallurgy. 3rd ed., Mc Graw-Hill ...
Today's top 318 Material Science jobs in New York, United States. Leverage your professional network, and get hired. New Material Science jobs added daily.

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.

This book presents select proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018), and covers topics regarding both the characterization of materials and their applications across engineering domains. It addresses standard materials such as metals, polymers and composites, as well as nano-, bio- and smart materials. In closing, the book explores energy, the environment and green processes as related to materials engineering. Given its content, it will prove valuable to a broad readership of students, researchers, and professionals alike.

"This book provides an insight into the mechanical behaviour and testing of metals, polymers, ceramics and composites, which are widely employed for structural applications under varying loads, temperatures and environments. Organized in 13 chapters, this book begins with explaining the fundamentals of materials, their basic building units, atomic bonding and crystal structure, further describing the role of imperfections on the behaviour of metals and alloys. The book then explains dislocation theory in a simplified yet analytical manner. The destructive and non-destructive testing methods are discussed, and the interpreted test data are then examined critically."- Publisher's description.

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A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

Ultrasonic methods have been very popular in nondestructive testing and characterization of materials. This book deals with both industrial ultrasound and medical ultrasound. The advantages of ultrasound include flexibility, low cost, in-line operation, and providing data in both signal and image formats for further analysis. The book devotes 11 chapters to ultrasonic methods. However, ultrasonic methods can be much less effective with some applications. So the book also has 14 chapters catering to other or advanced methods for nondestructive testing or material characterization. Topics like structural health monitoring, Terahertz methods, X-ray and thermography methods are presented. Besides different sensors for nondestructive testing, the book places much emphasis on signal/image processing and pattern recognition of the signals acquired.

Functional materials have assumed a very prominent position in several high-tech areas. Such materials are not being classified on the basis of their origin, nature of bonding or processing techniques but are classified on the basis of the functions they can perform. This is a significant departure from the earlier schemes in which materials were described as metals, alloys, ceramics, polymers, glass materials etc. Several new processing techniques have also evolved in the recent past. Because of the diversity of materials and their functions it has become extremely difficult to obtain information from single source. Functional Materials: Preparation, Processing and Applications provides a comprehensive review of the latest developments. Serves as a ready reference for Chemistry, Physics and Materials Science researchers by covering a wide range of functional materials in one book Aids in the design of new materials by emphasizing structure or microstructure - property correlation Covers the processing of functional materials in detail, which helps in conceptualizing the applications of them

Advances in manufacturing and industrial engineering in terms of advanced and latest technologies are required nowadays to attend the accelerated demands of high quality, productivity, and sustainability simultaneously. This book fulfils the requirement by offering unique comprehensive chapters on advances in manufacturing and industrial engineering technologies with an emphasis on Industry 4.0. This book sheds light on advances in the field of manufacturing and industrial engineering for enhancement in productivity, quality, and sustainability. It comprehensively covers the recent developments, latest trends, research, and innovations being carried out. 3D printing, green manufacturing, computer integrated manufacturing, cloud manufacturing, intelligent condition monitoring, advanced forming, automation, supply chain optimization, and advanced manufacturing of composites are covered in this book. Industry 4.0 based technologies for mechanical and industrial engineering are also presented with both a theoretical and a practical focus. This book is written for students, researchers, professors, and engineers working in the fields of manufacturing, industrial, materials science, and mechanical engineering.

Metallurgical Failure Analysis: Techniques and Case Studies explores how components fail and what measures should be taken to avoid future failures. The book introduces the subject of failure analysis; covers the fundamentals and methodology of failure analysis, including fracture and fractography of metals and alloys and the tools and techniques used in a failure investigation; examines 37 case studies on high performance engineering components; features experimental results comprised of visual, fractographic, or metallographic examination, hardness measurements and chemical analysis; includes illustrations and evidence obtained through test results to enhance understanding; and suggests suitable remedial measures when possible. The various case studies are classified according to the major causes of failures. The case studies pertain to: Improper Material Selection, Manufacturing Defects, Casting Defects, Overload, Fatigue, Corrosion Induced Failures, Hydrogen Embrittlement and Stress Corrosion Cracking, Wear and Elevated Temperature Failures. The book contains information gathered over three decades of the author's experience handling a variety of failure cases and will go a long way toward inspiring practicing failure analysts. The book is designed for scientists, metallurgists, engineers, quality control inspectors, professors and students alike. Explores the fundamentals and methodology of failure analysis Examines the major causes of component failures Teaches a systematic approach to investigation to determine the cause of a failure Features 37 case studies on high performance engineering components

This comprehensive overview of the whole field of fatigue and fracture of metallic materials covers both the theoretical background and some of the latest experimental techniques. It provides a summary of the complex interactions between material microstructure and cracks, classifying them with respect to the overall damage process with a focus on microstructurally short cracks and dynamic embrittlement. It furthermore introduces new concepts for the numerical treatment of fatigue microcrack propagation and their implementation in fatigue-life prediction models. This comprehensive overview of the whole field of fatigue and fracture of metallic materials covers both the theoretical background and the latest experimental techniques. It provides a summary of the complex interactions between material microstructure and cracks, classifying them with respect to the overall damage process. It furthermore introduces new concepts for the numerical treatment of fatigue microcrack propagation and their implementation in fatigue-life prediction models.