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Song Marc A. Meyers

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 cambridge org 97800521866758

covers stress strain equations mechanical testing yielding and fracture under stress fracture of cracked members and fatigue of materials

includes numerous examples and problems for student practice this textbook is ideal for courses on the mechanical behaviour of materials taught in departments of mechanical engineering and materials science

this outstanding text offers a comprehensive treatment of the principles of the mechanical behavior of materials appropriate for senior and graduate courses it is distinguished by its focus on the relationship between macroscopic properties material microstructure and fundamental concepts of bonding and crystal structure the current second edition retains the original editions extensive coverage of nonmetallics while increasing coverage of ceramics composites and polymers that have emerged as structural materials in their own right and are now competitive with metals in many applications it contains new case studies includes solved example problems and incorporates real life examples because of the books extraordinary breadth and depth adequate coverage of all of the material requires two full semesters of a typical three credit course since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials the text has been designed so that material can be culled or deleted with ease instructors can select topics they wish to emphasize and are able to proceed at any level they consider appropriate

dynamic behavior of materials volume 1 of the proceedings of the 2021 sem annual conference exposition on experimental and applied mechanics the first volume of six from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of experimental mechanics including papers on hybrid experimental analytical techniques industrial applications quantitative visualization of dynamic events novel testing techniques shock and blast synchrotron applications and advanced imaging

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dynamic behavior of materials fundamentals material models and microstructure effects provides readers with the essential knowledge and tools necessary to determine best practice design modeling simulation and application strategies for a variety of materials while also covering the fundamentals of how material properties and behavior are affected by material structure and high strain rates the book examines the relationships between material microstructure and consequent mechanical properties enabling the development of materials with improved performance and more effective design of parts and components for high rate applications sections cover the fundamentals of dynamic material behavior with chapters studying dynamic elasticity and wave propagation dynamic plasticity of crystalline materials ductile fracture brittle fracture adiabatic heating and strain localization response to shock loading various material characterization methods such as the hopkinson bar technique the taylor impact experiment different shock loading experiments recent advances in dynamic material behavior the dynamic behaviors of nanocrystalline materials bulk metallic glasses additively manufactured materials ceramics concrete and concrete reinforced materials geomaterials polymers composites and biomaterials and much more focuses on the relationship between material microstructure and

resulting mechanical responses covers the fundamentals characterization methods modeling techniques applications and recent advances of the dynamic behavior of a broad array of materials includes insights into manufacturing and processing techniques that enable more effective material design and application

dynamic behavior of materials volume 1 proceedings of the 2012 annual conference on experimental and applied mechanics represents one of seven volumes of technical papers presented at the society for experimental mechanics sem 12th international congress exposition on experimental and applied mechanics held at costa mesa california june 11 14 2012 the full set of proceedings also includes volumes on challenges in mechanics of time dependent materials and processes in conventional and multifunctional materials imaging methods for novel materials and challenging applications experimental and applied mechanics 2nd international symposium on the mechanics of biological systems and materials 13th international symposium on mems and nanotechnology and composite materials and the 1st international symposium on joining technologies for composites

an expanded textbook for mechanical behavior of materials courses in mechanical and materials engineering that emphasizes quantitative problem solving

advances in technology are demanding ever increasing mastery over the materials being used the challenge is to gain a better understanding of their behaviour and more particularly of the relations between their microstructure and their macroscopic properties this work of which this is the first volume aims to provide the means by which this challenge may be met starting from the mechanics of deformation it develops the laws governing macroscopic behaviour expressed as the constitutive equations always taking account of the physical phenomena which underlie rheological behaviour the most recent developments are presented in particular those concerning heterogeneous materials such as metallic alloys polymers and composites each chapter is devoted to one of the major classes of material behaviour as the subtitles indicate volume 1 deals with micro and macroscopic constitutive behaviour and volume 2 with damage and fracture mechanics a third volume will be devoted to exercises and their full solutions complementing the content of these two first volumes most of the chapters end with a set of exercises to many of which either the full solution or hints on how to obtain this are given each volume is profusely illustrated with explanatory diagrams and with electron microscope

photographs this book now in its second edition has been rigorously re written updated and modernised for a new generation the authors improved the existing material in particular in modifying the organisation and added new up to date content understanding the subject matter requires a good knowledge of solid mechanics and materials science the main elements of these fields are given in a set of annexes at the end of the first volume the authors also thought it interesting for the readers to give as footnotes some information about the many scientists whose names are attached to theories and formulae and whose memories must be celebrated whilst the present book as well as volume 2 is addressed primarily to graduate students part of it can be used in undergraduate courses and it is hoped that practising engineers and scientists will find the information it conveys useful it is the authors hope also that english speaking readers will want to learn about the aspects of french culture and more particularly of the french school of micromechanics of materials which this treatment undoubtedly displays

dynamic behavior of materials volume 1 proceedings of the 2014 annual conference on experimental and applied mechanics the first volume of eight from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of experimental mechanics including papers on general dynamic materials response novel dynamic testing techniques dynamic fracture and failure dynamic behavior of geo materials dynamic behavior of composites and multifunctional materials dynamic behavior of low impedance materials dynamic modeling and simulation of dynamic behavior of materials quantitative visualization of dynamic behavior of materials shock blast loading of materials interface and structural dynamics material response

addresses fundamentals and advanced topics relevant to the behavior of materials under in service conditions such as impact shock stress and high strain rate deformations deals extensively with materials from a microstructure perspective which is the future direction of research today

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