

Journal Of The Mechanics And Physics Of Solids

Decoding the Journal of the Mechanics and Physics of Solids: A Comprehensive Guide

Introduction:

Are you a materials scientist, mechanical engineer, or physicist grappling with the complexities of solid mechanics? Do you need to navigate the dense landscape of research publications to find the most impactful studies in your field? Then this in-depth guide to the Journal of the Mechanics and Physics of Solids (JMPS) is for you. This post will delve into the journal's history, scope, impact factor, submission process, and provide strategies for maximizing your chances of publication. We'll also explore the types of research frequently featured and offer tips for effectively utilizing the journal's vast archive. Let's unlock the secrets of JMPS and discover how it can advance your research career.

1. The Journal of the Mechanics and Physics of Solids: A Historical Perspective

The Journal of the Mechanics and Physics of Solids enjoys a long and prestigious history, establishing itself as a leading publication in its field. Its enduring relevance stems from its dedication to publishing high-quality, original research that pushes the boundaries of understanding in solid mechanics, material science, and related disciplines. From its inception, the journal has attracted contributions from leading researchers globally, fostering a vibrant community of scholars dedicated to advancing knowledge in this crucial area. Understanding this historical context is crucial for appreciating the journal's current standing and its impact on the broader scientific community. Tracing its evolution reveals a consistent commitment to rigor, innovation, and the dissemination of impactful findings.

2. Understanding the Scope and Impact Factor of JMPS

The Journal of the Mechanics and Physics of Solids boasts a broad scope, encompassing various aspects of solid mechanics and related areas. This includes, but is not limited to:

Continuum Mechanics: Theoretical developments, constitutive modeling, and advanced mathematical techniques used to describe the behavior of materials.

Material Science: Experimental characterization of materials' mechanical properties, including elasticity, plasticity, fracture, and fatigue.

Computational Mechanics: Numerical methods and simulations used to analyze and predict the behavior of solids under various loading conditions.

Nanomechanics: Mechanics of materials at the nanoscale, exploring the unique properties and behaviors of materials at extremely small dimensions.

Biomechanics: Application of mechanical principles to biological systems, including bones, tissues, and organs.

The journal's high impact factor reflects its influence within the scientific community. This factor signifies the average number of citations received by articles published in the journal, indicating the significance and reach of its research. A high impact factor is a critical indicator of a journal's prestige and its contribution to the advancement of knowledge.

3. Navigating the JMPS Submission Process: A Step-by-Step Guide

Submitting a manuscript to the Journal of the Mechanics and Physics of Solids requires careful preparation and attention to detail. The journal has stringent requirements regarding formatting, style, and the overall quality of the research. Understanding the submission process thoroughly is crucial for increasing the likelihood of acceptance. This includes:

Thorough manuscript preparation: Ensuring the manuscript adheres to the journal's guidelines concerning formatting, referencing, and figure preparation.

Selecting appropriate reviewers: Identifying potential reviewers who possess the necessary expertise to evaluate the research effectively.

Addressing reviewer comments: Responding thoughtfully and comprehensively to any criticisms or suggestions made by reviewers.

Understanding the peer-review process: Familiarizing oneself with the journal's peer-review process, including timelines and potential outcomes.

Effective preparation and adherence to the journal's guidelines will significantly improve the chances of a positive review and eventual publication.

4. Types of Research Frequently Published in JMPS

The journal prioritizes original research that contributes significantly to the advancement of the field. Common themes include:

Novel Constitutive Models: Development of new mathematical models that accurately describe the mechanical behavior of materials under various loading conditions.

Experimental Investigations: Advanced experimental techniques used to characterize the mechanical properties of materials and structures.

Theoretical Analyses: Rigorous theoretical frameworks and mathematical analyses that provide deep insights into fundamental principles of solid mechanics.

Computational Simulations: Sophisticated computational methods and simulations used to analyze complex mechanical systems.

Multiscale Modeling: Integrating different scales of analysis, such as atomic, microstructural, and macroscopic scales, to understand material behavior.

Understanding the types of research frequently published helps potential authors tailor their submissions to the journal's preferences and increase their chances of acceptance.

5. Effectively Utilizing the JMPS Archive: A Researcher's Resource

The JMPS archive represents a treasure trove of knowledge for researchers in the field. It offers a wealth of information covering decades of groundbreaking research. Effective utilization of this archive requires strategic searching and analysis:

Keyword searches: Employing relevant keywords to locate pertinent articles.

Citation tracking: Identifying articles that have been cited frequently, indicating their influence and importance.

Author searches: Locating articles by leading researchers in the field.

Topic-specific searches: Focusing on specific areas of interest within solid mechanics.

The JMPS archive provides a valuable resource for staying updated on the latest advancements, conducting literature reviews, and gaining insights into the field's evolution.

Sample Book Outline: "Advanced Topics in Solid Mechanics: A JMPS Perspective"

Introduction: Overview of solid mechanics, the significance of JMPS, and the book's structure.

Chapter 1: Constitutive Modeling: Exploring various constitutive models used to describe material behavior, including elasticity, plasticity, viscoelasticity, and damage mechanics.

Chapter 2: Fracture Mechanics: Detailed analysis of fracture phenomena, including crack initiation, propagation, and arrest.

Chapter 3: Computational Methods in Solid Mechanics: A comprehensive overview of various numerical methods used in solid mechanics, including finite element analysis and boundary element methods.

Chapter 4: Nanomechanics and Microscale Phenomena: Examining the unique mechanical behavior of materials at the nanoscale and microscale.

Chapter 5: Applications in Engineering and Material Science: Illustrating the practical applications of solid mechanics principles in various engineering disciplines and materials science research.

Conclusion: Summary of key concepts and future directions in solid mechanics research.

(Detailed explanation of each chapter would follow, expanding on the topics listed above. This section would constitute a substantial portion of the article, expanding on the concepts introduced in the previous sections with detailed explanations and examples. Due to word count limitations, this detailed explanation is omitted here.)

FAQs:

1. What is the impact factor of the Journal of the Mechanics and Physics of Solids? The impact factor varies year to year and can be found on the journal's website or reputable metrics databases like Clarivate Analytics' Journal Citation Reports.

2. What types of articles does JMPS publish? JMPS publishes original research articles, letters, and occasionally review articles.

3. What is the acceptance rate for JMPS? The acceptance rate is highly competitive and generally low, reflecting the journal's high standards.

4. How long is the peer-review process for JMPS? The peer-review process can take several months.

5. What are the formatting requirements for JMPS submissions? Detailed formatting instructions are available on the journal's website and should be carefully followed.

6. Can I submit a theoretical paper to JMPS? Yes, JMPS welcomes theoretical contributions that advance understanding in solid mechanics.
7. Does JMPS publish experimental studies? Yes, JMPS publishes experimental studies that use advanced techniques and provide significant insights.
8. Is there an open-access option for publishing in JMPS? Check the journal's website for current information on open-access options and fees.
9. How can I find relevant articles in the JMPS archive? Utilize the journal's online search function, focusing on keywords and author names relevant to your research.

Related Articles:

1. "Recent Advances in Constitutive Modeling for Soft Materials": A review article covering the latest developments in constitutive modeling for materials with complex behaviors.
2. "Fracture Behavior of Composites Under Cyclic Loading": An experimental study investigating the fatigue and fracture behavior of composite materials.
3. "Finite Element Analysis of Stress Concentration in Complex Geometries": A computational study using finite element analysis to investigate stress distributions in complex geometries.
4. "Nanomechanical Characterization of Graphene using Atomic Force Microscopy": An experimental study using atomic force microscopy to characterize the nanomechanical properties of graphene.
5. "A Novel Approach to Modeling Creep in Polycrystalline Metals": A theoretical paper proposing a new constitutive model for creep in polycrystalline metals.
6. "The Role of Surface Energy in Nanowire Fracture": An investigation into the influence of surface energy on the fracture behavior of nanowires.
7. "Biomechanical Modeling of Bone Remodeling": A computational study simulating bone remodeling processes.
8. "Experimental Validation of a New Damage Model for Concrete": A study comparing experimental results with predictions from a newly developed damage model for concrete.
9. "Multiscale Modeling of Polymer Composites": A study using multiscale modeling to predict the mechanical behavior of polymer composites.

journal of the mechanics and physics of solids: Journal of the Mechanics and Physics of Solids Rodney Hill, William Marsh Baldwin, 1986

journal of the mechanics and physics of solids: *Fracture Mechanics* , 1989

journal of the mechanics and physics of solids: *Mechanics of Solid Interfaces* Muriel Braccini, Michel Dupeux, 2013-05-21 The growing occurrence of heterogeneous materials such as composites or coated substrates in structural parts makes it necessary for designers and scientists to deal with the specific features of the mechanical behavior of solid interfaces. This book introduces basic concepts on mechanical problems related to the presence of solid/solid interfaces and their

practical applications. The various topics discussed here are the mechanical characterization of interfaces, the initiation and growth of cracks along interfaces, the origin and control of interface adhesion, focusing in particular on thin films on substrate systems. It is designed and structured to provide a solid background in the mechanics of heterogeneous materials to help students in materials science, as well as scientists and engineers.

journal of the mechanics and physics of solids: Mechanics of Solids and Materials

Robert Asaro, Vlado A. Lubarda, 2006-01-16 This 2006 book combines modern and traditional solid mechanics topics in a coherent theoretical framework.

journal of the mechanics and physics of solids: Issues in Applied Physics: 2011 Edition , 2012-01-09 Issues in Applied Physics / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Applied Physics. The editors have built Issues in Applied Physics: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Applied Physics in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Physics: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

journal of the mechanics and physics of solids: The Mechanics of Solids and Structures - Hierarchical Modeling and the Finite Element Solution Miguel Luiz Buclelem, Klaus-Jurgen Bathe, 2011-03-08 In the recent decades, computational procedures have been applied to an increasing extent in engineering and the physical sciences. Mostly, two separate fields have been considered, namely, the analysis of solids and structures and the analysis of fluid flows. These continuous advances in analyses are of much interest to physicists, mathematicians and in particular, engineers. Also, computational fluid and solid mechanics are no longer treated as entirely separate fields of applications, but instead, coupled fluid and solid analysis is being pursued. The objective of the Book Series is to publish monographs, textbooks, and proceedings of conferences of archival value, on any subject of computational fluid dynamics, computational solid and structural mechanics, and computational multi-physics dynamics. The publications are written by and for physicists, mathematicians and engineers and are to emphasize the modeling, analysis and solution of problems in engineering.

journal of the mechanics and physics of solids: Fundamentals of the Mechanics of Solids

Paolo Maria Mariano, Luciano Galano, 2015-11-30 This distinctive textbook aims to introduce readers to the basic structures of the mechanics of deformable bodies, with a special emphasis on the description of the elastic behavior of simple materials and structures composed by elastic beams. The authors take a deductive rather than inductive approach and start from a few first, foundational principles. A wide selection of exercises, many with hints and solutions, are provided throughout and organized in a way that will allow readers to form a link between abstract mathematical concepts and real-world applications. The text begins with the definition of bodies and deformations, keeping the kinematics of rigid bodies as a special case; the authors also distinguish between material and spatial metrics, defining each one in the pertinent space. Subsequent chapters cover observers and classes of possible changes; forces, torques, and related balances, which are derived from the invariance under classical changes in observers of the power of the external actions over a body, rather than postulated a priori; constitutive structures; variational principles in linear elasticity; the de Saint-Venant problem; yield criteria and a discussion of their role in the representation of material behavior; and an overview of some bifurcation phenomena, focusing on the Euler rod. An appendix on tensor algebra and tensor calculus is included for readers who need a brief refresher on these topics. Fundamentals of the Mechanics of Solids is primarily intended for graduate and advanced undergraduate students in various fields of engineering and applied mathematics.

Prerequisites include basic courses in calculus, mathematical analysis, and classical mechanics.

journal of the mechanics and physics of solids: Mechanics of Solid Materials Jean Lemaitre, Jean-Louis Chaboche, 1994-08-25 Translation of hugely successful book aimed at advanced undergraduates, graduate students and researchers.

journal of the mechanics and physics of solids: Metal Matrix Composites, 1968

journal of the mechanics and physics of solids: Mechanics and Physics of Solids at Micro- and Nano-Scales Ioan R. Ionescu, Sylvain Queyreau, Catalin R. Picu, Oguz Umut Salman, 2020-02-26 Chronicling the 11th US France Mechanics and physics of solids at macro- and nano-scales symposium, organized by ICACM (International Center for Applied Computational Mechanics) in Paris, June 2018, this book addresses the breadth of issues raised. It covers a comprehensive range of scientific and technological topics (from elementary plastic events in metals and materials in harsh environments to bio-engineered and bio-mimicking materials), offering a representative perspective on state-of-the-art research and materials. Expounding on the issues related to mesoscale modeling, the first part of the book addresses the representation of plastic deformation at both extremes of the scale between nano- and macro- levels. The second half of the book examines the mechanics and physics of soft materials, polymers and materials made from fibers or molecular networks.

journal of the mechanics and physics of solids: Foundations of Nanomechanics Andrew N. Cleland, 2013-03-09 This text provides an introduction, at the level of an advanced student in engineering or physics, to the field of nanomechanics and nanomechanical devices. It provides a unified discussion of solid mechanics, transducer applications, and sources of noise and nonlinearity in such devices. Demonstrated applications of these devices, as well as an introduction to fabrication techniques, are also discussed. The text concludes with an overview of future technologies, including the potential use of carbon nanotubes and other molecular assemblies.

journal of the mechanics and physics of solids: Mechanics of Solids J. F. Bell, 1984-06-01 Reissue of Encyclopedia of Physics / Handbuch der Physik, Volume VIa The mechanical response of solids was first reduced to an organized science of fairly general scope in the nineteenth century. The theory of small elastic deformations is in the main the creation of CAUCHY, who, correcting and simplifying the work of NAVIER and POISSON, through an astounding application of conjoined scholarship, originality, and labor greatly extended in breadth the shallowest aspects of the treatments of part of bodies by GALILEO, LEIBNIZ, JAMES BERNOULLI, PARENT, DANIEL BERNOULLI, EULER, and COULOMB. Linear elasticity became a branch of mathematics, cultivated wherever there were mathematicians. The magisterial treatise of LOVE in its second edition, 1906 - clear, compact, exhaustive, and learned - stands as the summary of the classical theory. It is one of the great gaslight works that in BOCHNER'S words! either do not have any adequate successor[s] . . . or, at least, refuse to be superseded . . . ; and so they have to be reprinted, in ever increasing numbers, for active research and reference, as long as State and Society shall permit men to learn mathematics by, for, and of men's minds. Abundant experimentation on solids was done during the same century. Usually the materials arising in nature, with which experiment most justly concerns itself, do not stoop easily to the limitations classical elasticity posits.

journal of the mechanics and physics of solids: Principles of the Theory of Solids J. M. Ziman, 1979-11-29 Professor Ziman's classic textbook on the theory of solids was first published in 1964. This paperback edition is a reprint of the second edition, which was substantially revised and enlarged in 1972. The value and popularity of this textbook is well attested by reviewers' opinions and by the existence of several foreign language editions, including German, Italian, Spanish, Japanese, Polish and Russian. The book gives a clear exposition of the elements of the physics of perfect crystalline solids. In discussing the principles, the author aims to give students an appreciation of the conditions which are necessary for the appearance of the various phenomena. A self-contained mathematical account is given of the simplest model that will demonstrate each principle. A grounding in quantum mechanics and knowledge of elementary facts about solids is

assumed. This is therefore a textbook for advanced undergraduates and is also appropriate for graduate courses.

journal of the mechanics and physics of solids: Cellular Solids Lorna J. Gibson, Michael F. Ashby, 1997 In this new edition of their classic work on Cellular Solids, the authors have brought the book completely up to date, including new work on processing of metallic and ceramic foams and on the mechanical, electrical and acoustic properties of cellular solids. Data for commercially available foams are presented on material property charts; two new case studies show how the charts are used for selection of foams in engineering design. Over 150 references appearing in the literature since the publication of the first edition are cited. The text summarises current understanding of the structure and mechanical behaviour of cellular materials, and the ways in which they can be exploited in engineering design. Cellular solids include engineering honeycombs and foams (which can now be made from polymers, metals, ceramics and composites) as well as natural materials, such as wood, cork and cancellous bone.

journal of the mechanics and physics of solids: *Nonlinear Continuum Mechanics of Solids* Yavuz Basar, Dieter Weichert, 2013-11-11 The aim of the book is the presentation of the fundamental mathematical and physical concepts of continuum mechanics of solids in a unified description so as to bring young researchers rapidly close to their research area. Accordingly, emphasis is given to concepts of permanent interest, and details of minor importance are omitted. The formulation is achieved systematically in absolute tensor notation, which is almost exclusively used in modern literature. This mathematical tool is presented such that study of the book is possible without permanent reference to other works.

journal of the mechanics and physics of solids: *Issues in Applied Physics: 2013 Edition* , 2013-05-01 Issues in Applied Physics / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Medical Physics. The editors have built Issues in Applied Physics: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Medical Physics in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Physics / 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

journal of the mechanics and physics of solids: *Fatigue and Fracture Mechanics* Steven R. Daniewicz, J. C. Newman, K. Schwalbe, 2005-09

journal of the mechanics and physics of solids: *Serial Publications Commonly Cited in Technical Bibliographies of the United States Geological Survey* Geological Survey (U.S.), 1970

journal of the mechanics and physics of solids: Nonlinear Solid Mechanics Adnan Ibrahimbegovic, 2009-04-02 This book offers a recipe for constructing the numerical models for representing the complex nonlinear behavior of structures and their components, represented as deformable solid bodies. Its appeal extends to those interested in linear problems of mechanics.

journal of the mechanics and physics of solids: *Adhesive Joints* Wulff Possart, Markus Brede, 2019-02-11 A comprehensive overview of adhesive bonding, providing both basic knowledge of polymer adhesives as well as insights into their mechanical and ageing properties. The book is unique in its up-to-date, self-contained summary of recent developments and in its integration of the theory, synthesis and mechanical properties of adhesive joints as well as their applications. Well-structured throughout, the first chapter introduces the initial state of adhesive joints and their formation, while subsequent chapters discuss the ageing and failure as well as the weathering of adhesive joints. In addition the issue of long-term behavior and lifetime predictions are considered. The text is rounded off by a look at future technological advances. The result is an essential

reference for a wide range of disciplines

journal of the mechanics and physics of solids: *Nonlinear Solid Mechanics* Adnan Ibrahimbegovic, 2009-06-02 This book offers a recipe for constructing the numerical models for representing the complex nonlinear behavior of structures and their components, represented as deformable solid bodies. Its appeal extends to those interested in linear problems of mechanics.

journal of the mechanics and physics of solids: *Dislocation Mechanism-Based Crystal Plasticity* Zhuo Zhuang, Zhanli Liu, Yinan Cui, 2019-04-12 Dislocation Based Crystal Plasticity: Theory and Computation at Micron and Submicron Scale provides a comprehensive introduction to the continuum and discreteness dislocation mechanism-based theories and computational methods of crystal plasticity at the micron and submicron scale. Sections cover the fundamental concept of conventional crystal plasticity theory at the macro-scale without size effect, strain gradient crystal plasticity theory based on Taylor law dislocation, mechanism at the mesoscale, phase-field theory of crystal plasticity, computation at the submicron scale, including single crystal plasticity theory, and the discrete-continuous model of crystal plasticity with three-dimensional discrete dislocation dynamics coupling finite element method (DDD-FEM). Three kinds of plastic deformation mechanisms for submicron pillars are systematically presented. Further sections discuss dislocation nucleation and starvation at high strain rate and temperature effect for dislocation annihilation mechanism. - Covers dislocation mechanism-based crystal plasticity theory and computation at the micron and submicron scale - Presents crystal plasticity theory without size effect - Deals with the 3D discrete-continuous (3D DCM) theoretic and computational model of crystal plasticity with 3D discrete dislocation dynamics (3D DDD) coupling finite element method (FEM) - Includes discrete dislocation mechanism-based theory and computation at the submicron scale with single arm source, coating micropillar, lower cyclic loading pillars, and dislocation starvation at the submicron scale

journal of the mechanics and physics of solids: *Delamination Behaviour of Composites* Srinivasan Sridharan, 2008-10-21 Given such advantages as low weight compared to strength and toughness, laminated composites are now used in a wide range of applications. Their increasing use has underlined the need to understand their principal mode of failure, delamination. This important book reviews key research in understanding and preventing delamination. The first part of the book reviews general issues such as the role of fracture mechanics in understanding delamination, design issues and ways of testing delamination resistance. Part two describes techniques for detecting and characterising delamination such as piezoelectric sensors, the use of Lamb waves and acoustic emission techniques. The next two sections of the book discuss ways of studying and modelling delamination behaviour. The final part of the book reviews research on delamination behaviour in particular conditions such as shell and sandwich structures, z-pin bridging and resin bonding. With its distinguished editor and international team of contributors, Delamination behaviour of composites is a standard reference for all those researching laminated composites and using them in such diverse applications as microelectronics, aerospace, marine, automotive and civil engineering. - Reviews the role of fracture mechanics in understanding delamination, design issues and ways of testing delamination resistance - Discuss ways of studying and modelling delamination behaviour - A standard reference for all those researching laminated composites

journal of the mechanics and physics of solids: *Mechanics and Physics of Porous Solids* Olivier Coussy, 2011-06-28 Mechanics and Physics of Porous Solids addresses the mechanics and physics of deformable porous materials whose porous space is filled by one or several fluid mixtures interacting with the solid matrix. Coussy uses the language of thermodynamics to frame the discussion of this topic and bridge the gap between physicists and engineers, and organises the material in such a way that individual phases are explored, followed by coupled problems of increasing complexity. This structure allows the reader to build a solid understanding of the physical processes occurring in the fluids and then porous solids. Mechanics and Physics of Porous Solids offers a critical reference on the physics of multiphase porous materials - key reading for engineers and researchers in structural and material engineering, concrete, wood and materials science, rock and soil mechanics, mining and oil prospecting, biomechanics.

journal of the mechanics and physics of solids: The Mathematical Theory of Plasticity

Rodney Hill, 1998 First published in 1950, this important and classic book presents a mathematical theory of plastic materials, written by one of the leading exponents.

journal of the mechanics and physics of solids: Handbook of Research on Advancements in

Manufacturing, Materials, and Mechanical Engineering Burstein, Leonid, 2020-09-18 Production, new materials development, and mechanics are the central subjects of modern industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures, automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in related industries; scientists; and students.

journal of the mechanics and physics of solids: Elevated Temperature Testing Problem

Areas H. R. Voorhees, 1970

journal of the mechanics and physics of solids: Advanced Composite Materials for

Aerospace Engineering Soheli Rana, Raul Figueiro, 2016-04-26 Advanced Composite Materials for Aerospace Engineering: Processing, Properties and Applications predominately focuses on the use of advanced composite materials in aerospace engineering. It discusses both the basic and advanced requirements of these materials for various applications in the aerospace sector, and includes discussions on all the main types of commercial composites that are reviewed and compared to those of metals. Various aspects, including the type of fibre, matrix, structure, properties, modeling, and testing are considered, as well as mechanical and structural behavior, along with recent developments. There are several new types of composite materials that have huge potential for various applications in the aerospace sector, including nanocomposites, multiscale and auxetic composites, and self-sensing and self-healing composites, each of which is discussed in detail. The book's main strength is its coverage of all aspects of the topics, including materials, design, processing, properties, modeling and applications for both existing commercial composites and those currently under research or development. Valuable case studies provide relevant examples of various product designs to enhance learning. - Contains contributions from leading experts in the field - Provides a comprehensive resource on the use of advanced composite materials in the aerospace industry - Discusses both existing commercial composite materials and those currently under research or development

journal of the mechanics and physics of solids: Mechanics of Soft Materials

Konstantin Volokh, 2019-06-11 This book provides a concise introduction to soft matter modelling, together with an up-to-date review of the continuum mechanical description of soft and biological materials, from the basics to the latest scientific materials. It also includes multi-physics descriptions, such as chemo-, thermo-, and electro-mechanical coupling. The new edition includes a new chapter on fractures as well as numerous corrections, clarifications and new solutions. Based on a graduate course taught for the past few years at Technion, it presents original explanations for a number of standard materials, and features detailed examples to complement all topics discussed.

journal of the mechanics and physics of solids: Creep and Fatigue in Polymer Matrix

Composites Rui Miranda Guedes, 2010-11-29 Creep is the tendency of materials to deform when subjected to long-term stress, particularly when exposed to heat. Fatigue phenomena occur when a material is subjected to cyclic loading, causing damage which may progress to failure. Both are critical factors in the long-term performance and reliability of materials such as polymer matrix composites which are often exposed to these types of stress in civil engineering and other applications. This important book reviews the latest research in modelling and predicting creep and fatigue in polymer matrix composites. The first part of the book reviews the modelling of viscoelastic

and viscoplastic behaviour as a way of predicting performance and service life. Part two discusses techniques for modelling creep rupture and failure. The final part of the book discusses ways of testing and predicting long-term creep and fatigue in polymer matrix composites. With its distinguished editor and international team of contributors, *Creep and Fatigue in Polymer Matrix Composites* is a standard reference for all those researching and using polymer matrix composites in such areas as civil engineering. - Reviews the latest research in modelling and predicting creep and fatigue in polymer matrix composites - A specific focus on viscoelastic and viscoplastic modelling features the time-temperature-age superposition principle for predicting long-term response - Creep rupture and damage interaction is examined with particular focus on time-dependent failure criteria for lifetime prediction of polymer matrix composite structures illustrated using experimental cases

journal of the mechanics and physics of solids: *Finite Element Analysis of Composite Materials using Abaqus*TM Ever J. Barbero, 2013-04-18 Developed from the author's graduate-level course on advanced mechanics of composite materials, *Finite Element Analysis of Composite Materials with Abaqus*TM shows how powerful finite element tools address practical problems in the structural analysis of composites. Unlike other texts, this one takes the theory to a hands-on level by actually solving problems. It explains the concepts involved in the detailed analysis of composites, the mechanics needed to translate those concepts into a mathematical representation of the physical reality, and the solution of the resulting boundary value problems using the commercial finite element analysis software Abaqus. The first seven chapters provide material ideal for a one-semester course. Along with offering an introduction to finite element analysis for readers without prior knowledge of the finite element method (FEM), these chapters cover the elasticity and strength of laminates, buckling analysis, free edge stresses, computational micromechanics, and viscoelastic models and composites. Emphasizing hereditary phenomena, the book goes on to discuss continuum and discrete damage mechanics as well as delaminations. More than 50 fully developed examples are interspersed with the theory, more than 75 exercises are included at the end of each chapter, and more than 50 separate pieces of Abaqus pseudocode illustrate the solution of example problems. The author's website offers the relevant Abaqus and MATLAB® model files available for download, enabling readers to easily reproduce the examples and complete the exercises. The text also shows readers how to extend the capabilities of Abaqus via user subroutines and Python scripting.

journal of the mechanics and physics of solids: *Constitutive modeling of amorphous thermoplastic polymers with special emphasis on manufacturing processes* Hempel, Philipp, 2016-10-26 This book deals with the development of constitutive models for the mechanical behavior of amorphous thermoplastic polymers at large strains. A special emphasis lies on the temperature dependency so that the altered material behavior at high temperatures can be considered. To implement the developed constitutive models the software tool AceGen is used by which program code is generated and optimized as well as derivatives are calculated automatically.

journal of the mechanics and physics of solids: *ECCM-8 European Conference on Composite Materials* I. Crivelli Visconti, 1998

journal of the mechanics and physics of solids: *Application of Fracture Mechanics to Cementitious Composites* S.P. Shah, 2012-12-06 Portland cement concrete is a relatively brittle material. As a result, mechanical behavior of concrete, conventionally reinforced concrete, prestressed concrete, and fiber reinforced concrete is critically influenced by crack propagation. It is, thus, not surprising that attempts are being made to apply the concepts of fracture mechanics to quantify the resistance to cracking in cementitious composites. The field of fracture mechanics originated in the 1920's with A. A. Griffith's work on fracture of brittle materials such as glass. Its most significant applications, however, have been for controlling brittle fracture and fatigue failure of metallic structures such as pressure vessels, airplanes, ships and pipe lines. Considerable development has occurred in the last twenty years in modifying Griffith's ideas or in proposing new concepts to account for the ductility typical of metals. As a result of these efforts, standard testing techniques have been available to obtain fracture parameters for metals, and design based on these parameters are included in relevant specifications. Many attempts have been made, in the last two

decades or so, to apply the fracture mechanics concepts to cement, mortar, concrete and reinforced concrete. So far, these attempts have not led to a unique set of material parameters which can quantify the resistance of these cementitious composites to fracture. No standard testing methods and a generally accepted theoretical analysis are established for concrete as they are for metals.

journal of the mechanics and physics of solids: Issues in Applied Physics: 2012 Edition, 2013-01-10 Issues in Applied Physics / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Radiation Research. The editors have built Issues in Applied Physics: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Radiation Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Physics: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

journal of the mechanics and physics of solids: Fracture and Fatigue Emanating from Stress Concentrators G. Pluvinau, 2007-05-08 A vast majority of failures emanate from stress concentrators such as geometrical discontinuities. The role of stress concentration was first highlighted by Inglis (1912) who gives a stress concentration factor for an elliptical defect, and later by Neuber (1936). With the progress in computing, it is now possible to compute the real stress distribution at a notch tip. This distribution is not simple, but looks like pseudo-singularity as in principle the power dependence with distance remains. This distribution is governed by the notch stress intensity factor which is the basis of Notch Fracture Mechanics. Notch Fracture Mechanics is associated with the volumetric method which postulates that fracture requires a physical volume. Since fatigue also needs a physical process volume, Notch Fracture Mechanics can easily be extended to fatigue emanating from a stress concentration.

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