

Pilar Ariza
Editor

Micromechanics of Defects in Solids

Micromechanics Of Defects In Solids

Luc Dormieux, Franz-Josef Ulm



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Micromechanics of Defects in Solids T. Mura, 2012-12-06 This book stems from a course on Micromechanics that I started about fifteen years ago at Northwestern University At that time micromechanics was a rather unfamiliar subject Although I repeated the course every year I was never convinced that my notes have quite developed into a final manuscript because new topics emerged constantly requiring revisions and additions I finally came to realize that if this is continued then I will never complete the book to my total satisfaction Meanwhile T Mori and I had coauthored a book in Japanese entitled Micromechanics published by Baifu kan Tokyo in 1975 It received an extremely favorable response from students and researchers in Japan This encouraged me to go ahead and publish my course notes in their latest version as this book which contains further development of the subject and is more comprehensive than the one published in Japanese Micromechanics encompasses mechanics related to microstructures of materials The method employed is a continuum theory of elasticity yet its applications cover a broad area relating to the mechanical behavior of materials plasticity fracture and fatigue constitutive equations composite materials polycrystals etc These subjects are treated in this book by means of a powerful and unified method which is called the eigenstrain method In particular problems relating to inclusions and dislocations are most effectively analyzed by this method and therefore special emphasis is placed on these topics *Micromechanics of*

Defects in Solids Toshio Mura, 1991 Micromechanics of Defects in Solids Pilar Ariza, 2012-02-16 This volume presents recent developments in the theory of defects and the mechanics of material forces The book constitutes a selection of the contributions presented at the International Symposium on Defect and Material Mechanics ISDMM2011 held in Seville Spain June 2011 The ISDMM series of symposia provides a rare and much needed forum for bringing together a diverse group of researchers from various areas ranging from theoretical experimental and computational modeling of the mechanics of materials The present volume constitutes a valuable snapshot of the field of the mechanics of materials and their defects and a window to its many accomplishments challenges and opportunities and open questions The volume is intended to motivate the young research community interested in the field Reprinted from International Journal of Fracture Vol 174 1 2012

Solid-state Physics Source Book Sybil P. Parker, 1988 **Theory of Electroelasticity** Zhen-Bang Kuang, 2013-08-04 Theory of Electroelasticity analyzes the stress strain electric field and electric displacement in electroelastic structures such as sensors actuators and other smart materials and structures This book also describes new theories such as the physical variational principle and the inertial entropy theory It differs from the traditional method by using the physical variational principle to derive the governing equations of the piezoelectric material whereas the Maxwell stress is obtained automatically By using the inertial entropy theory the temperature wave equation is obtained very easily The book is intended for scientists researchers and engineers in the areas of mechanics physics smart material and control engineering as well as mechanical aeronautical and civil engineering etc Zhen Bang Kuang is a professor at Shanghai Jiao Tong

University Applied Micromechanics of Porous Materials Luc Dormieux, Franz-Josef Ulm, 2005-08-03 Poromechanics is the mechanics of porous materials and is now a well established field in many engineering disciplines ranging from Civil Engineering Geophysics Petroleum Engineering to Bioengineering However a rigorous approach that links the physics of the phenomena at stake in porous materials and the macroscopic behaviour is still missing This book presents such an approach by means of homogenization techniques Rigorously founded in various theories of micromechanics these up scaling techniques are developed for the homogenization of transport properties stiffness and strength properties of porous materials The special feature of this book is the balance between theory and application providing the reader with a comprehensive introduction to state of the art homogenization theories and applications to a large range of real life porous materials concrete rocks shales bones etc High-Pressure Shock Compression of Solids J.R. Asay, M. Shahinpoor, 2012-12-06 This book presents a set of basic understandings of the behavior and response of solids to propagating shock waves The propagation of shock waves in a solid body is accompanied by large compressions decompression and shear Thus the shear strength of solids and any inelastic response due to shock wave propagation is of the utmost importance Furthermore shock compression of solids is always accompanied by heating and the rise of local temperature which may be due to both compression and dissipation For many solids under a certain range of impact pressures a two wave structure arises such that the first wave called the elastic precursor travels with the speed of sound and the second wave called a plastic shock wave travels at a slower speed Shock wave loading of solids is normally accomplished by either projectile impact such as produced by guns or by explosives The shock heating and compression of solids covers a wide range of temperatures and densities For example the temperature may be as high as a few electron volts 1 eV 11 500 K for very strong shocks and the densification may be as high as four times the normal density *The Journal of Physics and Chemistry of Solids* ,1991 *Physics of the Solid State* ,2006 **High Performance Structures and Materials II** C. A. Brebbia, Willy Patrick Wilde, 2004 A range of topics relating to advanced types of structures particularly those based on new concepts or new types of materials Originally presented at the Second International Conference on High Performance Structures and Materials the papers contain detailed developments in design optimization manufacturing and experimentation Solid Mechanics Petar Miljanić, 1997 **Proceedings of the ASME Applied Mechanics Division** ,2004 Research Trends in Solid Mechanics U.S. National Committee on Theoretical and Applied Mechanics, 1999 Hardbound Solid mechanics is a basic scientific discipline which provides the theoretical foundation experimental support solution methodology and computational tools for analysis design construction manufacture and behavior prediction in service of many devices machines materials structures and large complex systems that are essential to the existence and progress of an advanced civilization It is concerned with both manmade natural and living solid objects and with all aspects of their physical behavior that affect their function integrity or service life expectancy The contents of this volume offer

examples of some of the activities that are currently at the forefront of solid mechanics research and also illustrate the vast reach of the discipline and of its interactions with other science and engineering endeavors *Plastic Flow and Creep*
Hussein M. Zbib,1992 *Damage Mechanics of Composite Materials* Klaus Friedrich,R. Talreja,1994 Providing a useful summary of current knowledge on the friction and wear properties of composite materials this book fills the gap between publications on fundamental principles of tribology and those on the friction and wear behaviour of metals and polymers
Journal of Applied Mechanics ,2008 **Diffusion and Defect Data** ,1995 *Mechanical Behaviour of Materials-VI*
Masahiro Jōno,1992 Significant progress in the science and technology of the mechanical behaviour of materials has been made in recent years The greatest strides forward have occurred in the field of advanced materials with high performance such as ceramics composite materials and intermetallic compounds The Sixth International Conference on Mechanical Behaviour of Materials ICM 6 taking place in Kyoto Japan 29 July 2 August 1991 addressed these issues In commemorating the fortieth anniversary of the Japan Society of Materials Science organised by the Foundation for Advancement of International Science and supported by the Science Council of Japan the information provided in these proceedings reflects the international nature of the meeting It provides a valuable account of recent developments and problems in the field of mechanical behaviour of materials *Journal of Engineering Mechanics* ,2002 **Subject Guide to Books in Print** ,1993

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