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Dislocations in Solids

Volume 11



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Dislocations In Solids Vol 11 Dislocations In Solids S

J Dewey



Dislocations In Solids Vol 11 Dislocations In Solids S:

Dislocations in Solids Frank Reginald Nunes Nabarro, Mike S. Duesbery, 2002 **Dislocations, Mesoscale Simulations and Plastic Flow** L. Kubin, 2013-04-18 In the past twenty years new experimental approaches improved models and progress in simulation techniques brought new insights into long standing issues concerning dislocation based plasticity in crystalline materials Dislocation dynamics simulations are becoming accessible to a wide range of users This book presents to students and researchers in materials science and mechanical engineering a comprehensive coverage of the physical body of knowledge on which they are based This includes classical studies which are too often ignored recent experimental and theoretical advances as well as a discussion of selected applications on various topics Dislocations in Solids Frank Reginald Nunes Nabarro, M. S. Duesbery, 2002 Properties of Crystalline Silicon Robert Hull, 1999 A unique and well organized reference this book provides illuminating data distinctive insight and expert guidance on silicon properties *Dislocations in Solids*, 2008-06-18 New models for dislocation structure and motion are presented for nanocrystals nucleation at grain boundaries shocked crystals interphase interfaces quasicrystals complex structures with non planar dislocation cores and colloidal crystals A review of experimentally established main features of the magnetoplastic effect with their physical interpretation explains many diverse results of this type The model has many potential applications for forming processes influenced by magnetic fields **Mechanics of Dislocation Fields** Claude Fressengeas, 2017-09-25 Accompanying the present trend of engineering systems aimed at size reduction and design at microscopic nanoscopic length scales *Mechanics of Dislocation Fields* describes the self organization of dislocation ensembles at small length scales and its consequences on the overall mechanical behavior of crystalline bodies The account of the fundamental interactions between the dislocations and other microscopic crystal defects is based on the use of smooth field quantities and powerful tools from the mathematical theory of partial differential equations The resulting theory is able to describe the emergence of dislocation microstructures and their evolution along complex loading paths Scale transitions are performed between the properties of the dislocation ensembles and the mechanical behavior of the body Several variants of this overall scheme are examined which focus on dislocation cores electromechanical interactions of dislocations with electric charges in dielectric materials the intermittency and scale invariance of dislocation activity grain to grain interactions in polycrystals size effects on mechanical behavior and path dependence of strain hardening **Dislocations in Solids: without special title** Frank Reginald Nunes Nabarro, 1979 **Progress in Physics, vol. 4/2015** Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics **Crystalline Silicon** Sukumar Basu, 2011-07-27 The exciting world of crystalline silicon is the source of the spectacular advancement of discrete electronic devices and solar cells The exploitation of ever changing properties of crystalline silicon with dimensional transformation may indicate more innovative silicon based technologies in near future

For example the discovery of nanocrystalline silicon has largely overcome the obstacles of using silicon as optoelectronic material. The further research and development is necessary to find out the treasures hidden within this material. The book presents different forms of silicon material, their preparation and properties. The modern techniques to study the surface and interface defect states, dislocations and so on in different crystalline forms have been highlighted in this book. This book presents basic and applied aspects of different crystalline forms of silicon in a wide range of information from materials to devices.

Dislocations in Solids Xanthippi Markenscoff, 1984 **Euro Superalloys 2010** Martin Heilmaier, 2011-07-04
Selected peer reviewed papers from the European Symposium on Superalloys and their Applications 25-28 May 2010
Wildbach Kreuth Germany **Physics of the Solid State**, 1995 *Materials Structure & Micromechanics of Fracture VIII*
Pavel Šandera, 2016-12-08 MSMF 8 Selected peer reviewed papers from the 8th International Conference Materials
Structure Micromechanics of Fracture MSMF8 June 27-29 2016 Brno Czech Republic **Advanced Interconnects and
Contacts: Volume 564** Daniel C. Edelstein, 1999-10-07 The MRS Symposium Proceeding series is an internationally
recognised reference suitable for researchers and practitioners *Dislocations in Solids* Frank R.N. Nabarro, John P.
Hirth, 2004-12 This is the first volume to appear under the joint editorship of J P Hirth and F R N Nabarro. While Volume 11
concentrated on the single topic of dislocations and work hardening, the present volume spreads over the whole range of the
study of dislocations from the application by Klamann and his colleagues of homotopy theory to classifying the line and point
defects of mesomorphic phases to Chaudhuri's account of the experimental observations of dislocations formed around
indentations. Chapter 64 by Cai Bulatov, Chang Li and Yip discusses the influence of the structure of the core of a dislocation
on its mobility. The power of modern computation allows this topic to be treated from the first principles of electron theory
and with empirical potentials for more complicated problems. Advances in electron microscopy allow these theoretical
predictions to be tested. In Chapter 65 Xu analyzes the emission of dislocations from the tip of a crack and its influence on the
brittle to ductile transition. Again the treatment is predominantly theoretical but it is consistently related to the very practical
example of alpha iron. In a dazzling interplay of experiment and abstract mathematics Klamann, Lavrentovich and Nastishin
analyze the line and point structural defects of the many mesomorphic phases which have become known in recent years.
Chapter 67 by Coupeau, Girard and Rabier is essentially experimental. It shows how the various modern techniques of
scanning probe microscopy can be used to study dislocations and their interaction with the free surface. Chapter 68 by
Mitchell and Heuer considers the complex dislocations that can form in ceramic crystals on the basis of observations by
transmission electron microscopy and presents mechanistic models for the motion of the dislocations in various temperature
regimes. While the underlying aim of the study of dislocations in energetic crystals by Armstrong and Elban in Chapter 69 is
to understand the role of dislocations in the process of detonation, it has the wider interest of studying dislocations in
molecular crystals which are elastically soft, plastically hard and brittle. Chaudhuri in Chapter 70 discusses the role of

dislocations in indentation processes largely on the basis of the elastic analysis by E H Yoffe The special case of nanoindentations is treated only briefly *The Mechanical Behavior of Materials X* Soo Woo Nam, Young Won Chang, Bong Sang Lee, Nack J. Kim, 2007-08-15 10th International Conference on The Mechanical Behavior of Materials May 27 31 2007 BEXCO Busan Korea THERMEC'2003 Tetsuo Sakai, Jose M. Torralba, 2003 *Bulletin of the Russian Academy of Sciences* ,2007 Physics Briefs ,1989 Zeitschrift Für Kristallographie ,2003

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