

FUNDAMENTAL ASPECTS OF DISLOCATION INTERACTIONS: LOW-ENERGY DISLOCATION STRUCTURES III

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Low Energy Dislocation Structures

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Low-energy Dislocation Structures M. Nabil Bassim, 1986 Fundamental Aspects of Dislocation Interactions G. Kostorz, H. A. Calderon, J. L. Martin, 2013-09-03 Fundamental Aspects of Dislocation Interactions Low Energy Dislocation Structures III covers the papers presented at a European Research Conference on Plasticity of Materials Fundamental Aspects of Dislocation Interactions Low Energy Dislocation Structures III held on August 30 September 4 1992 in Ascona Switzerland The book focuses on the processes technologies reactions transformations and approaches involved in dislocation interactions The selection first offers information on work softening and Hall Petch hardening in extruded mechanically alloyed alloys and dynamic origin of dislocation structures in deformed solids Discussions focus on stress strain behavior in relation to composition structure and annealing comparison of stress strain curves with work softening theory sweeping and trapping mechanism and model of dipolar wall structure formation The text then ponders on plastic instabilities and their relation to fracture and dislocation and kink dynamics in f c c metals studied by mechanical spectroscopy The book takes a look at misfit dislocation generation mechanisms in heterostructures and evolution of dislocation structure on the interfaces associated with diffusionless phase transitions Discussions focus on dislocation representation of a wall of elastic domains equation of equilibrium of an elastic domain transformation of dislocations and theoretical and experimental background The selection is a valuable reference for readers interested in dislocation interactions *Low-Energy Dislocation Structures* M. Nabil Bassim, W. A. Jesser, D. Kuhlmann-Wilsdorf, H. G. F. Wilsdorf, 1986 **Low-energy Dislocation Structures II** M. Nabil Bassim, 1989 Low-Energy Dislocation Structures II M. N. Bassim, W. A. Jesser, D. Kuhlmann-Wilsdorf, 1989 Low-Energy Dislocation Structures M. N. Bassim, 1986 *Proceedings of the International Conference on Low Energy Dislocation Structures* International Conference on Low Energy Dislocation Structures, M. N. Bassim, 1989 **International Conference on Low-Energy Dislocation Structures Held in Charlottesville, Virginia on 10-14 August 1986** M. N. Bassim, W. A. Jesser, D. Kuhlmann-Wilsdorf, H. G. Wilsdorf, VIRGINIA UNIV CHARLOTTESVILLE SCHOOL OF ENGINEERING AND APPLIED SCIENCE., 1986 Partial Contents Low Energy Dislocation Structures In Epitaxy Low Energy Dislocation Structures Caused By Phase Transformation Low Energy Dislocation Structures Due To Uni Directional Straining Low Energy Dislocation Structures Associated With Fracture Low Energy Dislocation Structures Due To Recovery And Creep Low Energy Dislocation Structures Caused by Friction Particle Bombardment and or Irradiation Low Energy Dislocation Structures Caused by Fatigue Low Energy Dislocation Structures in Semiconductors and Unusual Materials and Ancillary Theoretical Considerations **Low-energy Dislocation Structures** , International Conference on Low Energy Dislocation Structures , 1986 **International Conference on Low Energy Dislocation Structures ; 2** , 1989 *International Conference on Low Energy Dislocation Structures ; 1* , 1986 Low-energy Dislocation Structures , 1995 Dislocations in Solids Frank R.N. Nabarro, M.S. Duesbery, 2002-12-05

Dislocations are lines of irregularity in the structure of a solid analogous to the bumps in a badly laid carpet. Like these bumps, they can be easily moved and they provide the most important mechanism by which the solid can be deformed. They also have a strong influence on crystal growth and on the electronic properties of semiconductors. Containing Papers Presented at a European Research Conference on Plasticity of Materials - Fundamental Aspects of Dislocation Interactions: Low-Energy Dislocation Structures III Gernot Kosterz, 1993 **Fundamental aspects of dislocation**, 1993

Proceedings of the International Conference on Low Energy Dislocation Structures, Charlottesville, VA, U.S.A., August 10-14, 1986, 1986 *International Conference on Low-Energy Dislocation Structures Held in Charlottesville, Virginia on August 13-17, 1989* William A. Jesser, VIRGINIA UNIV CHARLOTTESVILLE., 1990. The scope and purpose of the second international conference on low energy dislocation structures was to examine the extent to which the concepts of dislocation energy minimization per unit line length have been successfully incorporated into those areas of interest in which these concepts have traditionally been ignored such as fracture, radiation damage, highly deformed materials and friction wear. The fruitful and extensive application of the LEDS concepts in such areas as epitaxy and crystal growth serve as a useful basis for comparison. Keywords: Crystal growth, Low energy dislocation structures, Conference, Epitaxy, LEDS concept, jes. Plasticity of Materials - Fundamental Aspects of Dislocation Interactions G. Kosterz, H. A. Calderon, J. L. Martin, 1993 Fundamental Aspects of Dislocation Interactions H. A. Calderon, G. Kosterz, J. L. Marti, 1993

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