

MATERIALS SCIENCE SERIES

DIFFUSION IN
CRYSTALLINE SOLIDS

EDITED BY
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**Diffusion In Crystalline Solids Paperback 1984 Author
Graeme E Murch**

JS Bruner



Diffusion In Crystalline Solids Paperback 1984 Author Graeme E Murch:

New Technical Books New York Public Library,1986 *Empirical and Computational Explorations of Diffusion* Irina V. Belova,Graeme E. Murch,2021-04-12 Special topic volume with invited peer reviewed papers only *Books in Print* ,1987

Diffusion in Crystalline Solids G E Murch,Arthur S. Nowick,1984-09-28 Diffusion in Crystalline Solids addresses some of the most active areas of research on diffusion in crystalline solids Topics covered include measurement of tracer diffusion coefficients in solids diffusion in silicon and germanium atom transport in oxides of the fluorite structure tracer diffusion in concentrated alloys diffusion in dislocations grain boundary diffusion mechanisms in metals and the use of the Monte Carlo Method to simulate diffusion kinetics This book is made up of eight chapters and begins with an introduction to the measurement of diffusion coefficients with radioisotopes The following three chapters consider diffusion in materials of substantial technological importance such as silicon and germanium Atomic transport in oxides of the fluorite structure is described and diffusion in concentrated alloys including intermetallic compounds is analyzed The next two chapters delve into diffusion along short circuiting paths focusing on the effect of diffusion down dislocations on the form of the tracer concentration profile The book also discusses the mechanisms of diffusion in grain boundaries in metals by invoking considerable work done on grain boundary structure The last two chapters are concerned with computer simulation paying particular attention to machine calculations and the Monte Carlo method The book concludes by exploring the fundamental atomic migration process and presenting some state of the art calculations for defect energies and the topology of the saddle surface Students and researchers of material science will find this book extremely useful **Diffusion in Solids** Graeme E. Murch,1984 **Diffusion in Solids** Graeme E. Murch,1992 This unusual book analyses the problems left in the field of solid state diffusion The authors were encouraged to discuss the inconsistencies the gaps in knowledge in short the unsolved problems This is a much more difficult task than writing the usual review and the authors are to be congratulated on their efforts *Diffusion in Solids* Amulya L. Laskar,G. E. Murch,1984 **Diffusion in Solids and Liquids VII** Andreas Öchsner,Graeme E. Murch,Ali Shokuhfar,João M.P.Q. Delgado,2012-04-26 Solids and Liquids Mass Transfer Heat Transfer Microstructure Properties Nanodiffusion and Nanostructured Materials *Diffusion in Solids and Liquids VIII* Andreas Öchsner,Graeme E. Murch,Ali Shokuhfar,João M.P.Q. Delgado,2013-02-13 Selected peer reviewed papers from the 8th International Conference on Diffusion in Solids and Liquids Mass Transfer Heat Transfer Microstructure Properties Nanodiffusion and Nanostructured Materials DSL 2012 June 25 29 2012 Istanbul Turkey **Diffusion in Solids and Liquids IX** Andreas Öchsner,Graeme E. Murch,Ali Shokuhfar,João M.P.Q. Delgado,2014-05-21 Selected peer reviewed papers from the 9th International Conference on Diffusion in Solids and Liquids Mass Transfer Heat Transfer Microstructure Properties Nanodiffusion and Nanostructured Materials DSL 2013 June 24 28 2013 Madrid Spain *Diffusion in Solids and Liquids III* Andreas Öchsner,Graeme E. Murch,2008-02-11 Selected peer reviewed papers from 3rd International Conference

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On the History of Solid-state Diffusion Cornelis Tuijn, L. Zhang, Graeme E. Murch, Dapeng Yu, Nadine Baluc, Maurice Kléman, Hiroshi Tanaka, Y. Sakamoto, F.A. Lewis, Xingcun Colin Tong, David J. Fisher, 1997 *Some effects of strain on diffusion in crystalline solids* Jeffrey M. Rickman, 1989 *Diffusion in Solids* Paul G. Shewmon, 1971 Diffusion Driven Morphological Instabilities of Crystalline Solids Wei Song, 2006 Keywords Morphology Instability Diffusion Perturbation Solid

Diffusion in Solids Graeme Elliott Murch, 1990 In this thesis the recent development application of computer simulation of diffusion in solids is traced by means of a commentary on and a presentation of 1 A selection of 43 original papers and 2 Five 5 published reviews book chapters Diffusion in Solids and Liquids VI Andreas Ochsner, Graeme E. Murch, Joao M.P.Q. Delgado, 2011-04-28 The goal of this special collection of peer reviewed papers was to provide an unique opportunity to exchange information to present the latest results and to review relevant issues in contemporary diffusion research The result is a work which will provide valuable insights into this subject Volume is indexed by Thomson Reuters CPCI S WoS

DIFFUSION IN AND THROUGH SOLIDS RICHARD MALING. BARRER, 2019

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