

Aloke Paul · Tomi Laurila
Vesa Vuorinen · Sergiy V. Divinski

Thermodynamics, Diffusion and the Kirkendall Effect in Solids

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Thermodynamics Diffusion And The Kirkendall Effect In Solids

**Holm Altenbach,Arkadi
Berezovski,Francesco dell'Isola,Alexey
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Thermodynamics Diffusion And The Kirkendall Effect In Solids:

Thermodynamics, Diffusion and the Kirkendall Effect in Solids Alope Paul, Tomi Laurila, Vesa Vuorinen, Sergiy V. Divinski, 2014-07-16 In this book basic and some more advanced thermodynamics and phase as well as stability diagrams relevant for diffusion studies are introduced Following Fick's laws of diffusion atomic mechanisms interdiffusion intrinsic diffusion tracer diffusion and the Kirkendall effect are discussed Short circuit diffusion is explained in detail with an emphasis on grain boundary diffusion Recent advances in the area of interdiffusion will be introduced Interdiffusion in multi component systems is also explained Many practical examples will be given such that researches working in this area can learn the practical evaluation of various diffusion parameters from experimental results Large number of illustrations and experimental results are used to explain the subject This book will be appealing for students academicians engineers and researchers in academic institutions industry research and development laboratories

Thermodynamics and Kinetics of Diffusion in Solids Boris Samuilovich Bokshtein, 1985 *Handbook of Solid State Diffusion: Volume 2* Alope Paul, Sergiy Divinski, 2017-03-07 Handbook of Solid State Diffusion Volume 2 Diffusion Analysis in Material Applications covers the basic fundamentals techniques applications and latest developments in the area of solid state diffusion giving readers a pedagogical understanding that is ideal for students academicians and development engineers Both experimental techniques and computational methods find equal importance within these second of two volumes Volume 2 covers practical issues on diffusion phenomena in bulk thin film and in nanomaterials Diffusion related problems and analyzing methods in industrial applications such as electronic industry high temperature materials nuclear materials Li ion batteries and superconductor materials are also discussed Presents a handbook with a short mathematical background and detailed examples of concrete applications of the sophisticated methods of analysis Enables readers to learn the basic concepts of experimental approaches and the computational methods involved in solid state diffusion Covers bulk thin film and nanomaterials Introduces the problems and analysis in important materials systems in various applications Collates contributions from academic and industrial problems from leading scientists involved in developing key concepts across the globe

Handbook of Solid State Diffusion: Volume 1 Alope Paul, Sergiy Divinski, 2017-04-11 Handbook of Solid State Diffusion Volume 1 Diffusion Fundamentals and Techniques covers the basic fundamentals techniques applications and latest developments in the area of solid state diffusion offering a pedagogical understanding for students academicians and development engineers Both experimental techniques and computational methods find equal importance in the first of this two volume set Volume 1 covers the fundamentals and techniques of solid state diffusion beginning with a comprehensive discussion of defects then different analyzing methods and finally concluding with an exploration of the different types of modeling techniques Presents a handbook with a short mathematical background and detailed examples of concrete applications of the sophisticated methods of analysis Enables readers to learn the basic concepts of experimental approaches and the computational methods

involved in solid state diffusion Covers bulk thin film and nanomaterials Introduces the problems and analysis in important materials systems in various applications Collates contributions from academic and industrial problems from leading scientists involved in developing key concepts across the globe *Handbook of Solid State Diffusion: Volume 2* Aloke Paul, Sergiy Divinski, 2017-04-13 Handbook of Solid State Diffusion Volume 2 Diffusion Analysis in Material Applications covers the basic fundamentals techniques applications and latest developments in the area of solid state diffusion offering a pedagogical understanding for students academicians and development engineers Both experimental techniques and computational methods find equal importance in the second of this two volume set Volume 2 covers practical issues on diffusion phenomena in bulk thin film and in nanomaterials Diffusion related problems and analysis of methods in industrial applications such as electronic industry high temperature materials nuclear materials and superconductor materials are discussed Presents a handbook with a short mathematical background and detailed examples of concrete applications of the sophisticated methods of analysis Enables readers to learn the basic concepts of experimental approaches and the computational methods involved in solid state diffusion Covers bulk thin film and nanomaterials Introduces the problems and analysis in important materials systems in various applications Collates contributions from academic and industrial problems from leading scientists involved in developing key concepts across the globe **Dynamics, Strength of Materials and Durability in Multiscale Mechanics** Francesco dell'Isola, Leonid Igumnov, 2020-11-01 This book reviews the mathematical modeling and experimental study of systems involving two or more different length scales The effects of phenomena occurring at the lower length scales on the behavior at higher scales are of intrinsic scientific interest but can also be very effectively used to determine the behavior at higher length scales or at the macro level Efforts to exploit this micro and macro coupling are naturally being pursued with regard to every aspect of mechanical phenomena This book focuses on the changes imposed on the dynamics strength of materials and durability of mechanical systems by related multiscale phenomena In particular it addresses 1 the impacts of effective dissipation due to kinetic energy trapped at lower scales 2 wave propagation in generalized continua 3 nonlinear phenomena in metamaterials 4 the formalization of more general models to describe the exotic behavior of meta materials 5 the design and study of microstructures aimed at increasing the toughness and durability of novel materials Contributions to Advanced Dynamics and Continuum Mechanics Holm Altenbach, Hans Irschik, Valery P. Matveenko, 2019-05-31 The book celebrates the 65th birthday of Prof Alexander K Belyaev a well known expert in the field of Dynamics of Mechanical Systems In addition to reflecting Prof Belyaev's contributions the papers gathered here address a range of current problems in Dynamics and Continuum Mechanics All contributions were prepared by his friends and colleagues and chiefly focus on theory and applications Atomic Transport in Solids A. R. Allnatt, A. B. Lidiard, 2003-10-30 This book provides the fundamental statistical theory of atomic transport in crystalline solids that is the means by which processes occurring at the atomic level are related to macroscopic transport coefficients and

other observable quantities The cornerstones of the authors treatment are i the physical concepts of lattice defects ii the phenomenological description provided by non equilibrium thermodynamics and iii the various methods of statistical mechanics used to link these kinetic theory random walk theory linear response theory etc The book is primarily concerned with transport in the body of crystal lattices and not with transport on surfaces within grain boundaries or along dislocations although much of the theory here presented can be applied to these low dimensional structures when they are atomically well ordered and regular

Diffusion in Solids - Past, Present and Future Boris S. Bokstein, Boris B. Straumal, 2006-01-15 Proceedings of the International Conference on Diffusion in Solids Past Present and Future held in Moscow Russia May 23 27 2005

Diffusion in Solids and Liquids, DSL-2006 I Andreas Öchsner, José Grácio, 2006-10-15 Mass Diffusion 2nd International Conference on Diffusion in Solids and Liquids Mass Transfer Heat Transfer Microstructure Properties DSL 2006 26 28 July 2006 University of Aveiro Portugal

Treatise on Solid State Chemistry: Reactivity of solids Norman Bruce Hannay, 1973

Thermodynamics of Materials, Volume 2 David V. Ragone, 1995 In response to the growing economic and technological importance of polymers ceramics and semi conductors many materials science and engineering as they apply to all the classes of materials Back Cover

Diffusion in Materials - DIMAT2004 Marek Danielewski, Robert Filipek, Rafal Abdank-Kozubski, Witold Kucza, Paweł Zięba, Zbigniew Żurek, 2005-04-30 DIMAT2004 Proceedings of the 6th International Conference on Diffusion In Materials DIMAT 2004 held in Cracow Poland July 18 23 2004

Defects and Diffusion in Metals, 2002

Diffusion in Solids Helmut Mehrer, 2007-07-24 Diffusion is a vital topic in solid state physics and chemistry physical metallurgy and materials science Diffusion processes are ubiquitous in solids at elevated temperatures A thorough understanding of diffusion in materials is crucial for materials development and engineering This book first gives an account of the central aspects of diffusion in solids for which the necessary background is a course in solid state physics It then provides easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Several diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion are considered as well Graduate students in solid state physics physical metallurgy materials science physical and inorganic chemistry or geophysics will benefit from this book as will physicists chemists metallurgists materials engineers in academic and industrial research laboratories

Kinetic Demixing and High-temperature Creep of Solid Solution Oxides Duane Brian Dimos, 1986

Treatise on Solid State Chemistry N. Hannay, 1976-08 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineer ing have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid

state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features

Diffusion in Solids and Liquids Mass Diffusion Andreas Öchsner, José Grácio, 2006 **Diffusion in Solids: Recent Developments** Arthur S. Nowick, 1975 *Transactions of the Metallurgical Society of AIME*. Metallurgical Society of AIME., 1962

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