

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

# Thermodynamics, Diffusion and the Kirkendall Effect in Solids

 Springer

# Thermodynamics Diffusion And The Kirkendall Effect In Solids

**Francesco dell'Isola, Victor A.  
Eremeyev, Alexey Porubov**



## **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, 2017-04-13 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

**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

**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

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

*Computational Design of Engineering Materials* Yong Du,Rainer Schmid-Fetzer,Jincheng Wang,Shuhong Liu,Jianchuan Wang,Zhanpeng Jin,2023-06-29 Presenting the fundamentals key multiscale methods and case studies for computational design of engineering materials

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      **Structure Induced Anelasticity in Iron Intermetallic Compounds and Alloys** Igor S. Golovin, Anatoly M. Balagurov, 2018-04-01 Different anelastic phenomena are discussed in this book with respect to iron based binary and ternary alloys and intermetallic compounds of  $\text{Fe}_3\text{Me}$  type where Me are stabilizing elements Al Ga or Ge An introduction into anelastic behavior of metallic materials is given and methods of mechanical spectroscopy and neutron diffraction are introduced for the better understanding of structure related relaxation and hysteretic phenomena To characterize structure and phase transitions both first and second order in the studied alloys XRD TEM SEM MFM VSM PAS DSC techniques were used Considerable emphasis is placed on in situ neutron diffraction tests that were performed with the same heating and cooling rates as the internal friction measurements Different types of mechanical spectroscopy techniques were used to study mainly but not exclusively Fe Al Fe Ga and Fe Ge based alloys from subresonance low frequency forced bending and torsion vibrations 0.0001 to 200 Hz to high frequency resonance above 200 Hz free decay bending vibrations We discuss 1 thermally activated effects like Snoek type relaxation caused by interstitial atom jumps in alloyed ferrite 2 Zener relaxation caused by reorientation of pairs of substitute atoms in iron 3 different transient effects due to phase transitions of the first and second order and 4 amplitude dependent magneto mechanical damping especially with respect to structure ordering of substitutional solid solution and phase transitions Special attention is paid to magnetostriction of the alloys the result of magneto mechanical elastic coupling      *Adsorption and Diffusion in Nanoporous Materials* Rolando M.A. Roque-Malherbe, 2018-02-12 Offering a materials science point of view the author covers the theory and practice of adsorption and diffusion applied to gases in microporous crystalline mesoporous ordered and micro mesoporous amorphous materials Examples used include microporous and mesoporous molecular sieves amorphous silica and alumina and active carbons akaganeites prussian blue analogues metal organic frameworks and covalent organic frameworks The use of single component adsorption diffusion in the characterization of the adsorbent surface pore volume pore size distribution and the study of the parameters characterizing single component transport processes in porous materials are detailed      *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      Drug Delivery Systems, 2019-10-23 Drug Delivery Systems examines the current

state of the field within pharmaceutical science and concisely explains the history of drug delivery systems including key developments The book translates the physicochemical properties of drugs into drug delivery systems administered via various routes such as oral parenteral transdermal and inhalational Regulatory and product development topics are also explored Written by experts in the field this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of drug delivery systems within the pharmaceutical sciences industry and research as well as in chemical engineering Each chapter delves into a particular aspect of this fundamental field to cover the principles methodologies and technologies employed by pharmaceutical scientists This book provides a comprehensive examination that is suitable for researchers and advanced students working in pharmaceuticals cosmetics biotechnologies and related industries Provides up to date information on how to translate the physicochemical properties of drugs into drug delivery systems Explores how drugs are administered via various routes such as oral parenteral transdermal and inhalational Contains extensive references and further reading for course and self study

**Nickel Base Single Crystals Across Length Scales** Loeiz Nazé, Vincent Maurel, Gunther Eggeler, Jonathan Cormier, Georges Cailletaud, 2021-09-28 Nickel Base Single Crystals Across Length Scales addresses the most advanced knowledge in metallurgy and computational mechanics and how they are applied to superalloys used as bare materials or with a thermal barrier coating system Joining both aspects the book helps readers understand the mechanisms driving properties and their evolution from fundamental to application level These guidelines are helpful for students and researchers who wish to understand issues and solutions optimize materials and model them in a cross check analysis from the atomistic to component scale The book is useful for students and engineers as it explores processing characterization and design Provides an up to date overview on the field of superalloys Covers the relationship between microstructural evolution and mechanical behavior at high temperatures Discusses both basic and advanced modeling and characterization techniques Includes case studies that illustrate the application of techniques presented in the book

*Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence* Umesh V. Banakar, 2022-01-19 Explore the cutting edge of dissolution testing in an authoritative one stop resource In Pharmaceutical Dissolution Testing Bioavailability and Bioequivalence Science Applications and Beyond distinguished pharmaceutical advisor and consultant Dr Umesh Banakar delivers a comprehensive and up to date reference covering the established and emerging roles of dissolution testing in pharmaceutical drug development After discussing the fundamentals of the subject the included resources go on to explore common testing practices and methods along with their associated challenges and issues in the drug development life cycle Over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution apart from mere quality control Readers will discover a wide range of topics including automation generic and biosimilar drug development patents and clinical safety This volume offers a one stop resource for information otherwise scattered amongst several different regulatory regimes It also includes A thorough introduction to the fundamentals and

essential applications of pharmaceutical dissolution testing Comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence Practical discussions about solubility dissolution permeability and classification systems in drug development In depth examinations of the mechanics of dissolution including mathematical models and simulations An elaborate assessment of biophysiological relevant dissolution testing and IVIVCs and their unique applications A complete understanding of the methods requirements and global regulatory expectations pertaining to dissolution testing of generic drug products Ideal for drug product development and formulation scientists quality control and assurance professionals and regulators Pharmaceutical Dissolution Testing Bioavailability and Bioequivalence is also the perfect resource for intellectual property assessors

**Multi-Walled Carbon Nanotubes** Simone Morais, 2019-07-15 Since their discovery multi walled carbon nanotubes MWCNTs have received tremendous attention due to their unique electrical optical physical chemical and mechanical properties Remarkable advances have been made in the synthesis purification structural characterization functionalization and application of MWCNTs Their particular characteristics make them well suited for a plethora of applications in a number of fields namely nanoelectronics nanofluids energy management electro catalysis materials science construction of bio sensors based on different detection schemes multifunctional nanoprobe for biomedical imaging and sorbents for sample preparation or removal of contaminants from wastewater They are also useful as anti bacterial agents drug delivery nanocarriers etc The current relevant application areas are countless This Special Issue presents original research and review articles that address advances trends challenges and future perspectives regarding synthetic routes structural features properties behaviors and industrial or scientific applications of MWCNTs in established and emerging areas

Sixty Shades of Generalized Continua Holm Altenbach, Arkadi Berezhovskii, Francesco dell'Isola, Alexey Porubov, 2023-02-13 In this book well known scientists discuss modern aspects of generalized continua in order to better understand modern materials and advanced structures They possess complicated internal structure and it requires the development of new approaches to model such structures and new effects caused by it This book combines fundamental contributions in honor of Victor Eremeyev and his 60th birthday

**Synthesis and Applications of Nanomaterials and Nanocomposites** Imran Uddin, Irfan Ahmad, 2023-05-08 This book brings together multiple aspects of the recent research conducted in the field of nanotechnology covering topics such as the synthesis of various nanoparticles nanorods graphene graphene oxide metal composites characterization of these materials and ample aspects of various applications including in heavy metal sensing optoelectronic devices gas sensing solar cells biomedical sensors role in the drug delivery and waste water treatment The book is of interest to early career researchers who are trying to grasp multiple aspects of nanomaterials and nanocomposite synthesis and its potential applications

Applied Computer Sciences in Engineering Juan Carlos Figueroa-García, Fabián Steven Garay-Rairán, Germán Jairo Hernández-Pérez, Yesid Díaz-Gutiérrez, 2020-10-07 This volume constitutes the refereed proceedings of the 7th Workshop on Engineering Applications WEA 2020 held in Bogota Colombia in

October 2020 The 32 revised full papers and 12 short papers presented in this volume were carefully reviewed and selected from 136 submissions The papers are organized in the following topical sections computational intelligence computer science optimization bioengineering military applications simulation IoT and networks power applications     Fundamentals of Materials Engineering- A Basic Guide Shashanka Rajendrachari,Orhan Uzun,2021-02-22 Fundamentals of Materials Engineering A Basic Guide is a helpful textbook for readers learning the basics of materials science This book covers important topics and fundamental concepts of materials engineering including crystal structure imperfections mechanical properties of materials polymers powder metallurgy corrosion and composites The authors have explained the concepts in an effective way and by using simple language for the benefit of a broad range of readers This book is also beneficial to the students in engineering courses at B Sc M Sc and M Tech levels     **Advances in Mechanics of Microstructured Media and Structures** Francesco dell'Isola,Victor A. Eremeyev,Alexey Porubov,2018-02-27 This book is an homage to the pioneering works of E Aero and G Maugin in the area of analytical description of generalized continua It presents a collection of contributions on micropolar micromorphic and strain gradient media media with internal variables metamaterials beam lattices liquid crystals and others The main focus is on wave propagation stability problems homogenization and relations between discrete and continuous models



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