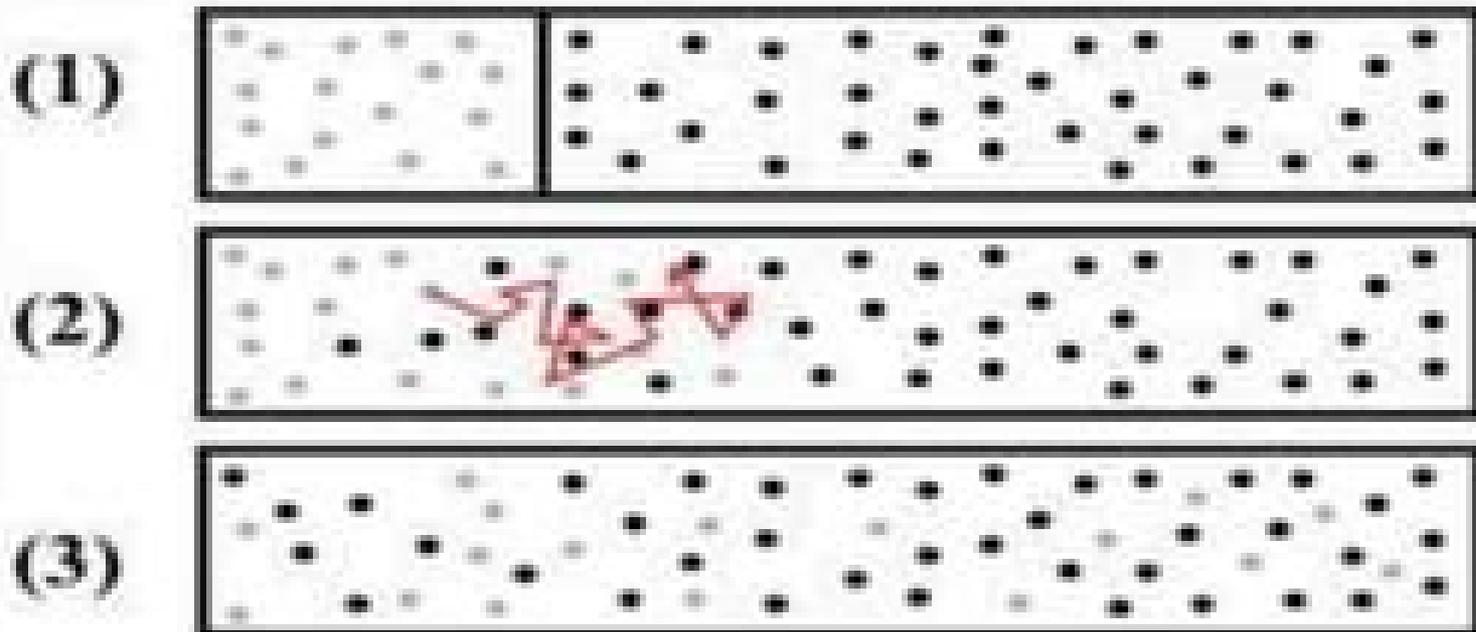


SOLID STATE DIFFUSION

- Phenomenon of mass transport within solid material by stepwise atomic motion



Solid State Diffusion

S.D. Gertsriken, Y.I. Dekhtyar



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Borg, George Julian Dienes, 1988 The energetics and mechanisms of diffusion control the kinetics of such diverse phenomena as the fabrication of semiconductors and superconductors the tempering of steel geological metamorphism the precipitation hardening of nonferrous alloys and corrosion of metals and alloys This work explains the fundamentals of diffusion in the solid state at a level suitable for upper level undergraduate and beginning graduate students in materials science metallurgy mineralogy and solid state physics and chemistry A knowledge of physical chemistry such as is generally provided by a one year undergraduate course is a prerequisite though no detailed knowledge of solid state physics or crystallography is required *Diffusion in Solids* Martin Eden Glicksman, 1999-11-30 This book offers a modern treatment of diffusion in solids covering such core topics as the transport of mass through the lattice of a crystalline solid Part I of the book develops basic concepts in diffusion field theory and illustrates them with several applications while Part II focuses on key solid state principles needed to apply diffusion theory to real materials Solid State Diffusion in Metals and Alloys Solomon Davydovich Gertsriken, Dekhtiar, Il'ia Iakovlevich, I. Ya Dekhtyar, 1960 Diffusion in Solids Helmut Mehrer, 2010-11-30 This book describes the central aspects of diffusion in solids and goes on to provide easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Coverage includes diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion This book will benefit graduate students in such disciplines as solid state physics physical metallurgy materials science and geophysics as well as scientists in academic and industrial research laboratories Handbook of Solid State Diffusion Aloke Paul, Sergiy V. Divinski, 2017 *Solid State Diffusion in Metals and Alloys* Solomon Davydovich Gertsriken, Il'ia Iakovlevich Dekhtiar, 1964 Solid State Diffusion John Paul Stark, 1976 *Microtectonics* Cees W. Passchier, Rudolph A. J. Trouw, 2005-08-31 High number of high quality line drawings and photographs not only support the text but also give readers valuable experience in interpreting what they observe in the field Newest developments in microtectonics have been included in all chapters so that all chapters have been revised and updated e.g. new information on brittle microstructures *Solid State Diffusion in Metals and Alloys* S.D. Gertsriken, Y.I. Dekhtyar, 1964 **Solid State Diffusion**, 1959 An Introduction to Solid State Diffusion Richard J. Borg, 1988 **Microjoining and Nanojoining** Y N Zhou, 2008-03-27 Many important advances in technology have been associated with nanotechnology and the miniaturization of components devices and systems Microjoining has been closely associated with the evolution of microelectronic packaging but actually covers a much broader area and is essential for manufacturing many electronic precision and medical products Part one reviews the basics of microjoining including solid state bonding and fusion microwelding Part two covers microjoining and nanojoining processes such as bonding mechanisms and metallurgy process development and optimization thermal stresses and distortion positioning and fixturing sensing and numerical modelling Part three discusses microjoining of materials such as plastics ceramics metals and advanced materials such as shape memory alloys and nanomaterials The book also discusses

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