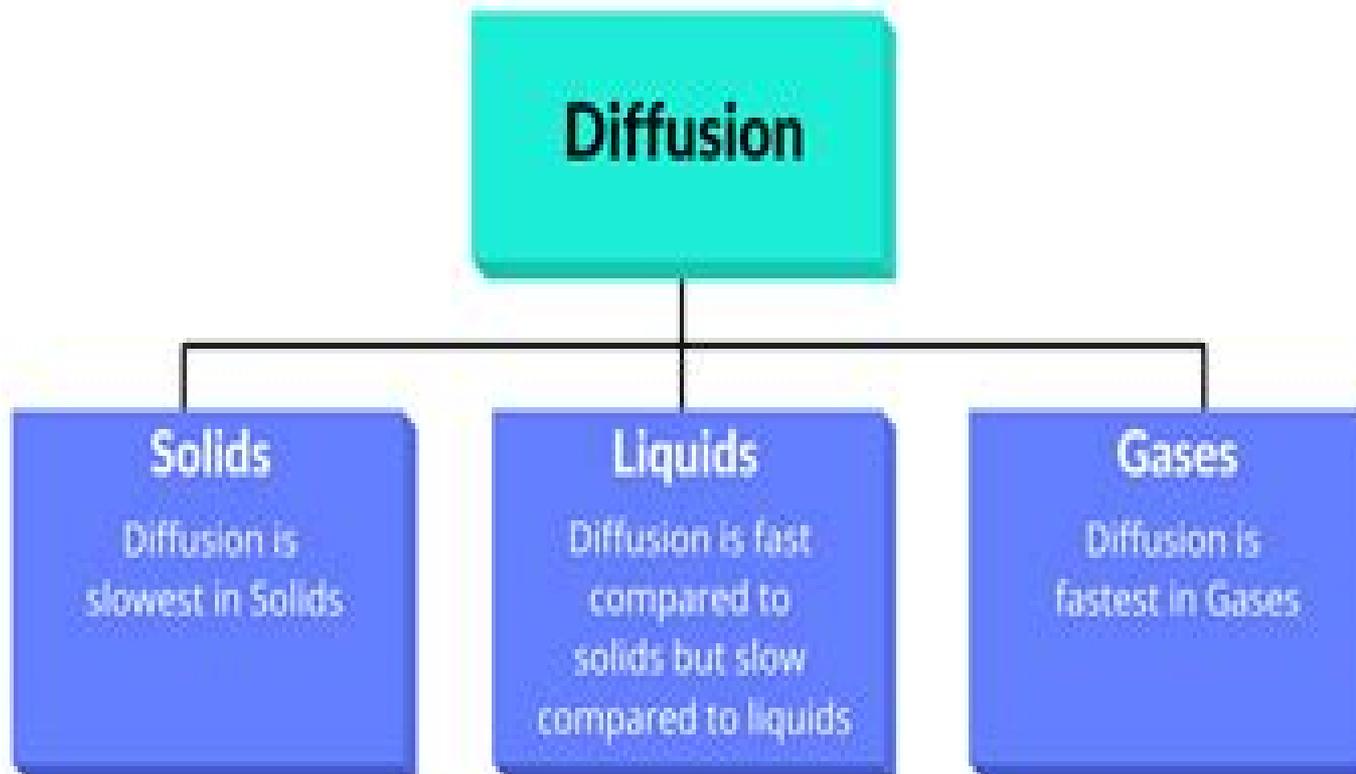




# Diffusion in Solids, Liquids and Gases



# Diffusion In Solids

**Christian Drosten**



## **Diffusion In Solids:**

**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

**Diffusion in Solids** Paul Shewmon, 2016-12-06 This book offers detailed descriptions of the methods available to predict the occurrence of diffusion in alloys subjected to various processes Major topic areas covered include diffusion equations atomic theory of diffusion diffusion in dilute alloys diffusion in a concentration gradient diffusion in non metals high diffusivity paths and thermo and electro transport *Diffusion in Solids* Paul G. Shewmon, 1983 This second edition is an updated and revised version of the original text It offers detailed descriptions of the methods available to predict the occurrence of diffusion in alloys subjected to various processes Major topic areas covered include diffusion equations atomic theory of diffusion diffusion in dilute alloys diffusion in a concentration gradient diffusion in non metals high diffusivity paths and thermo and electro transport This is an excellent textbook for use in metallurgical and materials science and engineering education

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**Diffusion in Solids** Martin Eden Glicksman, 2022-09-14 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

**Diffusion in Solids** A.S. Nowick, 2012-12-02 Diffusion in Solids Recent Developments provides an overview of diffusion in crystalline solids This book discusses the various aspects of the theory of diffusion Organized into nine chapters this volume starts with a discussion on the process of diffusion in solids This book then examines the tools that supplement the conventional diffusion measurements including electromigration ionic conductivity isotope effects and

vacancy wind effects This text explores the molecular dynamic calculation by which the interatomic forces must be assumed Other chapters discuss the method of measurement of the isotope effect on diffusion which is the most powerful method of determining relevant information about the correlation factor This volume extensively discusses diffusion in organic and amorphous materials as well as interstitial diffusion in solids The final chapter deals with ionic motion and diffusion in various groups of materials called fast ionic conductors Solid state physicists materials scientists physical chemists and electrochemists will find this book extremely useful *Diffusion in Solid Metals and Alloys / Diffusion in festen Metallen und Legierungen* H. Bakker, H.P. Bonzel, C.M. Bruff, M.A. Dayananda, W. Gust, J. Horvath, I. Kaur, G.V. Kidson, A.D. LeClaire, H. Mehrer, Gaeme E. Murch, G. Neumann, N. Stolica, N.A. Stolwijk, 1990-12-19 The interest in diffusion in solids is as old as physical metallurgy or materials science It stems from application oriented as well as from scientific reasons First a knowledge of diffusion is basic to an understanding of many microstructural changes that occur in solid matter at elevated temperatures For processes like phase transformations precipitation or dissolution of a second phase recrystallization oxidation creep annealing etc solid state diffusion is fundamental and ubiquitous The second reason for studying diffusion is to learn more about how atoms move in solid matter Volume III 26 presents for the first time a comprehensive collection of diffusion data for solid metals and alloys The critical compilation of data has resulted in tables and series of diagrams which show in 13 chapters data for the following properties Self and impurity diffusion in metallic elements self diffusion in homogeneous binary alloys chemical diffusion in binary and ternary alloys diffusion in amorphous alloys diffusion of interstitial foreign atoms like hydrogen carbon oxygen and nitrogen in metallic elements mass and pressure dependence of diffusion diffusion along dislocations grain and interphase boundary diffusion and diffusion on surfaces *Diffusion in Solids, liquids, gases : With addendum* Wilhelm Jost, 1960 *Diffusion in Solids* A.L. Laskar, 1984-01-01 A collection of invited contributions on the Reactive Element Effect on High Temperature Oxidation After Fifty Years **Defects and Diffusion in Solids** Stanisław Mrowec, 1980 **Diffusion in and Through Solids** Richard Maling Barrer, 1941

**Diffusion in Solids and Liquids V** Andreas Öchsner, 2010 Current water treatment technologies require considerable energy consumption Thus closely linked to the problem of water shortage is the impending energy crisis Therefore intensive research is being aimed at developing water purification processes that are based upon using renewable energy such as solar energy rather than energy generated using fossil fuels There has been an accumulation of reports on the development of photocatalysts which enable water purification using solar energy as the only driving force Such photocatalysts based upon oxide semiconductors permit the conversion of solar energy into the chemical energy that is required for the oxidation of toxic organic compounds in water The most promising photocatalyst is titanium dioxide TiO<sub>2</sub> and its solid solutions The research on TiO<sub>2</sub> photocatalysis is multidisciplinary and progress in this area requires the application of concepts of catalysis and photocatalysis as well as concepts of solid state chemistry **Diffusion in Solids and Liquids VI** Andreas

Öchsner, Graeme E. Murch, João M.P.Q. Delgado, 2011-04-20 Mass Transfer Heat Transfer Microstructure Properties Nanodiffusion and Nanostructured Materials Selected peer reviewed papers from the 6th Conference on Diffusion in Solids and Liquids DSL 2010 5 7 July 2010 Paris France **Diffusion in Solids - Unsolved Problems** Graeme Murch, 1992-01-01 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 and Liquids XI* Andreas Öchsner, Graeme E. Murch, Ali Shokuhfar, J.M.P.Q. Delgado, 2016-07-06 Selected peer reviewed papers from the Eleventh International Conference on Diffusion in Solids and Liquids DSL 2015 June 22 26 2015 NH M nchen Messe Germany *Diffusion in Solids, Liquids, Gases* Wilhelm Jost, 1960 **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 **The Mechanics of Diffusion in Solids** Elias C. Aifantis, 1980 *Handbook of Solid State Diffusion: Volume 1* Aloke 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 *Diffusion in Solids and High Temperature Oxidation of Metals* J. Nowotny, 1992-01-01 Transport processes in nonstoichiometric compounds are of considerable importance to engineering related disciplines such as the high temperature corrosion of metals and sintering of ceramics Therefore there is a need of exchange of information between scientists involved in basic research on diffusion in solids and those involved in applied research on subjects such as high temperature oxidation of metals and alloys and corrosion inhibition

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