

# Diffusion Atomic Ordering And Mass Transport Selected Topics In Geochemistry Advances In Physical Geochemistry

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this book presents a comprehensive account of the phenomenon of spontaneous ordering the phenomenon which can be categorized as a self organized process is observed to occur spontaneously during epitaxial growth of certain ternary alloy semiconductors and results in a modification of their structural electronic and

optical properties there has been a great deal of interest in learning how to control this phenomenon so that it may be used for tailoring desirable electronic and optical properties there has been even greater interest in exploiting the phenomenon for its unique ability to provide an experimental environment of controlled alloy statistical fluctuations as such it impacts areas of semiconductor science and technology related to the materials science of epitaxial growth statistical mechanics and electronic structure of alloys and electronic and photonic devices during the past two decades significant progress has been made toward understanding the mechanisms that drive this phenomenon and the changes in physical properties that result from it a variety of experimental techniques have been used to probe the phenomenon and several attempts made at providing theoretical models both for the ordering mechanisms as well as electronic structure changes the various chapters of this book provide a detailed account of these efforts during the past decade

deals with the influence of stoichiometry and order disorder on materials properties it summarizes the knowledge available in a comprehensive way

the nuclear gamma resonance method or the mössbauer effect is one of the most powerful methods of examining the structure of matter and substances the monograph indicates the key problems that have to be solved for the further development of the mössbauer methods for analysis of the nuclear and magnetic structure of alloys and offer solution variants for some of these problems based on the generalised results of a wide range of theoretical and experimental investigations including original work by the author of the book and his colleagues

a compilation selected enhanced abstracts

for all interested in the use or manufacture of colours and in calico printing bleaching etc

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