



Physical Chemistry of Semiconductor Materials and Processes (Hardback)

By Sergio Pizzini

John Wiley and Sons Ltd, United States, 2015. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. The development of solid state devices began a little more than a century ago, with the discovery of the electrical conductivity of ionic solids. Today, solid state technologies form the background of the society in which we live. The aim of this book is threefold: to present the background physical chemistry on which the technology of semiconductor devices is based; secondly, to describe specific issues such as the role of defects on the properties of solids, and the crucial influence of surface properties; and ultimately, to look at the physics and chemistry of semiconductor growth processes, both at the bulk and thin-film level, together with some issues relating to the properties of nano-devices. Divided into five chapters, it covers: Thermodynamics of solids, including phases and their properties and structural orderPoint defects in semiconductorsExtended defects in semiconductors and their interactions with point defects and impuritiesGrowth of semiconductor materialsPhysical chemistry of semiconductor materials processing With applications across all solid state technologies,the book is useful for advanced students and researchers in materials science, physics, chemistry, electrical and electronic engineering. It is also useful for...



[READ ONLINE](#)
[6.66 MB]

Reviews

Good eBook and useful one. It is amongst the most remarkable ebook i actually have study. You can expect to like the way the article writer publish this pdf.

-- Prof. Armand Senger DVM

Absolutely essential go through book. It can be rally fascinating throug studying period of time. You wont truly feel monotony at at any time of your respective time (that's what catalogues are for concerning in the event you question me).

-- Roberto Leannon