

Semiconductor Physics And Devices Basic Principles 4th Edition

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semiconductors are at the heart of modern living almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology comprehensive semiconductor science and technology six volume set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors previous attempts at this achievement have been abbreviated and have omitted important topics written and edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world the work is divided into three sections the first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size throughout this section there is an emphasis on the full understanding of the underlying physics the second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials the last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us provides a comprehensive global picture of the semiconductor world each of the work s three sections presents a complete description of one aspect of the whole written and edited by a truly international team of experts

water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the treatise on water science seeks to unite these areas through contributions from a global team of author experts the 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas published in partnership with and endorsed by the international water association iwa demonstrating the authority of the content editor in chief peter wilderer a stockholm water prize recipient has assembled a world class team of volume editors and contributing authors topics related to water resource management water quality and supply and handling of wastewater are treated in depth

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