

Televisions, telephones, watches, calculators, robots, airplanes and space vehicles all depend on silicon chips. Life as we know it would hardly be possible without semiconductor devices. An understanding of how these devices work requires a detailed knowledge of the physics of semiconductors, including charge transport and the emission and absorption of electromagnetic waves. This book may serve both as a university textbook and as a reference for research and microelectronics engineering. Each section of the book begins with a description of an experiment. The theory is then developed as far as necessary to understand the experimental results. Everyone with high-school mathematics should be able to follow the calculations. The band structure calculations for the diamond and zinc blende types of lattice are supplemented with a personal computer program. Semiconductor physics developed most rapidly in the two decades following the invention of the transistor, and naturally most of the references date from this time. But recent developments such as the Gunn effect, the acoustoelectric effect, superlattices, quantum well structures, and the quantum Hall effect are also discussed. The exercises provided (answers to which are available) will greatly assist the student in consolidating the material presented.

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Results 1 - 8 of 8 Semiconductor Physics: An Introduction (7th Ed) (Springer Series in Solid-State Sciences, 40) by Seeger, Karlheinz. Springer-Verlag Telos. Author Name: Seeger, Karlheinz Title: Semiconductor Physics: An Introduction (7th Ed) (Springer Series in Solid-State Sciences, 40) Binding: Hardcover. Principles of Magnetic Resonance (Springer

Series in Solid-State Sciences) (v. 1) by Charles Semiconductor Physics: An Introduction by Karlheinz Seeger, The Springer Series in Solid-State Sciences consists of fundamental scientific books prepared Semiconductors Department of Physics, East University, University of Michigan more general concept of band reps was introduced. J. Kittel: Introduction to Solid-State Physics, (Wiley Eastern, New Delhi) Int. Conf. on Physics of Semiconductors (Czech. Phonons: Theory and Experiment II Springer Series in Solid-State Sciences, Vol (Springer, Berlin).

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