



Introduction To Solid State Electronics (Frontiers in Physics)

I. P. Ipatova, Vladimir Mitin

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Introduction to Solid-State Electronics combines a modern presentation of semiconductor physics with a description of the principles of semiconductor devices. It unites the authors' extensive teaching and research experience with the requirements of an introductory graduate course in Solid-State Electronics for engineering students. Since a crystal is an object of high symmetry, some simple techniques—which do not require knowledge of the mathematical groups at the professional level—are used for the application of symmetry to the analysis of band structures. The textbook outlines the properties of low-dimensional structures in parallel with those of bulk materials. The authors have made the mathematical derivations both as self-contained and as simple as possible without using arguments of the type “it can be easily shown that...” This technique is just one of many that enables the book to provide a clear, comprehensive understanding of the main properties of semiconductors and their relations to device structures.

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