



Properties of Group-IV, III-V and II-VI Semiconductors

Sadao Adachi

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Almost all the semiconductors of practical interest are the group-IV, III-V and II-VI semiconductors and the range of technical applications of such semiconductors is extremely wide.

The purpose of this book is twofold:

- * to discuss the key properties of the group-IV, III-V and II-VI semiconductors
- * to systemize these properties from a solid-state physics aspect

The majority of the text is devoted to the description of the lattice structural, thermal, elastic, lattice dynamic, electronic energy-band structural, optical and carrier transport properties of these semiconductors. Some corrective effects and related properties, such as piezoelectric, elasto-optic and electro-optic properties, are also discussed.

The book contains convenient tables summarizing the various material parameters and the definitions of important semiconductor properties. In addition, graphs are included in order to make the information more quantitative and intuitive.

The book is intended not only for semiconductor device engineers, but also physicists and physical chemists, and particularly students specializing in the fields of semiconductor synthesis, crystal growth, semiconductor device physics and technology.

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