



Optical Constants of Crystalline and Amorphous Semiconductors: Numerical Data and Graphical Information

Sadao Adachi

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Knowledge of the refractive indices and absorption coefficients of semiconductors is especially important in the design and analysis of optical and optoelectronic devices. The determination of the optical constants of semiconductors at energies beyond the fundamental absorption edge is also known to be a powerful way of studying the electronic energy-band structures of the semiconductors. The purpose of this book is to give tabulated values and graphical information on the optical constants of the most popular semiconductors over the entire spectral range. This book presents data on the optical constants of crystalline and amorphous semiconductors. A complete set of the optical constants are presented in this book. They are: the complex dielectric constant ($\epsilon = \epsilon' + i\epsilon''$), complex refractive index ($n^* = n + ik$), absorption coefficient (α), and normal-incidence reflectivity (R). The semiconductor materials considered in this book are the group-IV elemental and binary, III-V, II-VI, IV-VI binary semiconductors, and their alloys. The reader will find the companion book "Optical Properties of Crystalline and Amorphous Semiconductors: Materials and Fundamental Principles" useful since it emphasizes the basic material properties and fundamental principles.

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