



Optical Properties and Band Structure of Semiconductors: International Series of Monographs in The Science of The Solid State

David L. Greenaway, Günther Harbeke

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Optical Properties and Band Structure of Semiconductors, Volume 1 presents the experimental studies of the fundamental energy band structure of semiconductors and insulators. This book provides detailed information of the available measurement methods and results for a large number of both cubic and non-cubic materials.

Comprised of 10 chapters, this volume begins with an overview of the fundamental band structure of semiconductors. This text then discusses the instrumentation and methods available for the measurement of absorption coefficient, absolute reflection coefficient, and other optical properties of insulators and semiconductors primarily in their fundamental region. Other chapters consider the interband transitions in the one-electron approximation. The final chapter deals with the equivalence of the transverse and longitudinal dielectric constants in the frequency range under consideration.

This book is a valuable resource for solid state physicists. Readers and researchers with interest in the electron and optical properties of semiconductors and insulators will also find this book useful.

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