



# Electrons in Solids: An Introductory Survey

*Richard Bube*

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## **Electrons in Solids: An Introductory Survey** Richard Bube

Electronics in Solids: An Introductory Survey presents a modern picture of electrons in solids using wave properties as the integrating theme of the conceptual background. It looks at lattice waves, light waves, and electron waves-along with their particle-like correlatives, phonons, photons, and electrons.

The first chapters of the book provide a background on wave equations, boundary conditions, and general wave properties for the student so that the transition to the nonclassical world of quantum mechanics can be more easily assimilated. The last chapters examine optical properties, electrical properties, junctions, and magnetic properties of solids.

This book is written for students of quantum mechanics and those examining the electrical, optical, and magnetic properties of solids, without relying too much on advanced knowledge on atomic or solid-state physics.

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