



# Theoretical Solid State Physics: International Series in Natural Philosophy, Volume 1: v. 1

*Albert Haug*

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# Theoretical Solid State Physics: International Series in Natural Philosophy, Volume 1: v. 1

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**Theoretical Solid State Physics: International Series in Natural Philosophy, Volume 1: v. 1** Albert Haug

Theoretical Solid State Physics, Volume 1 focuses on the study of solid state physics.

The volume first takes a look at the basic concepts and structures of solid state physics, including potential energies of solids, concept and classification of solids, and crystal structure. The book then explains single-electron approximation wherein the methods for calculating energy bands; electron in the field of crystal atoms; laws of motion of the electrons in solids; and electron statistics are discussed.

The text describes general forms of solutions and relationships, including collective electron interactions, Hartree-Fock and Heitler-London methods, and electron-electron scattering. The volume also reviews the magnetic properties of solids. Paramagnetism and diamagnetism of free electrons, solids, and atoms; behavior of electrons in a magnetic field; and basic concepts of magnetism are discussed.

The book also considers the dielectric properties of solids and dynamics of crystal lattices.

The volume is a dependable source of data for readers interested in solid state physics.

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