



## Physical Acoustics V4A: Principles and Methods

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Physical Acoustics: Principles and Methods, Volume IV, Part A: Applications to Quantum and Solid State Physics provides an introduction for the various applications of quantum mechanics to acoustics by describing several processes for which such considerations are essential. This book explores the magnetic fields applied to metals in the normal state, which have the effect of localizing the interaction between the acoustic waves and the electrons to specific parts of the Fermi surface.

Organized into nine chapters, this volume starts with an overview of the transmission of sound waves in semiconducting crystals that are piezoelectric. This text then examines the reactions of nonpiezoelectric semiconductors with electrons through the deformation potential that changes the shape of the Fermi surface. Other chapters consider the amplification of acoustic waves in semiconductors by the application of an electric field. The final chapter examines how measurements can delineate the Fermi surface of monovalent metals.

Physicists and engineers will find this book useful.

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