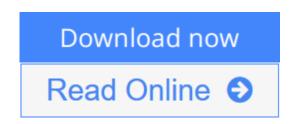


Electrons and Phonons: The Theory of Transport Phenomena in Solids (Oxford Classic Texts in the Physical Sciences)

By J. M. Ziman



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This study of the theory of electrical and thermal conduction in metals, semiconductors, and insulators is written at a level appropriate to graduate students and research workers and assumes some knowledge of wave mechanics in its reader. The basic ideas of crystal lattice dynamics, electron zone structure, and transport theory are developed from first principles, and formulae for the macroscopic coefficients are deduced by self-contained mathematical arguments. Interpretation in terms of electronic structure, chemical purity, crystal structure, and crystal perfection is emphasized as a tool for further investigation but detailed discussion of individual means or alloys is avoided.

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Editorial Review

Review

"Zimnan's [sic] work was in print nearly 20 years, and out of print another 20 before becoming an official classic. For graduate students and researchers who have some knowledge of wave mechanics, he looks at theoretical aspects of electrical and thermal conduction in metals, semiconductors, and insulators. He develops the basic ideas of crystal lattice dynamics, electron zone structure, and transport theory from first principles."--*SciTech Book News*

"...[This] book is of historic significance since it represents a mile stone in the development of the theory of transport phenomena in solids. ..[This] book is a pleasure to read, owing to its remarkable eloquence and clarity of presentation."--*MATH*

About the Author J.M. Ziman is Emeritus Professor at University of Bristol.

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