



# Introduction to Solid-State Theory (Springer Series in Solid-State Sciences)

By Otfried Madelung



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**Introduction to Solid-State Theory** is a textbook for graduate students of physics and materials science. It also provides the theoretical background needed by physicists doing research in pure solid-state physics and its applications to electrical engineering. The fundamentals of solid-state theory are based on a description by delocalized and localized states and - within the concept of delocalized states - by elementary excitations. The development of solid-state theory within the last ten years has shown that by a systematic introduction of these concepts, large parts of the theory can be described in a unified way. This form of description gives a "pictorial" formulation of many elementary processes in solids, which facilitates their understanding.



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*By Otfried Madelung*

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## **Editorial Review**

Review

FROM THE REVIEWS:

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"...the textbook is an excellent introduction into most fields of modern solid state theory and may be recommended to...graduate students in physics and material sciences as well as researchers in the field of solid state physics."

PHYSICALIA

"...the book is remarkably well articulated and its organization is crystal-clear...Because this book requires a good-knowledge of quantum mechanics and also some prior knowledge of the most important solid-state phenomena, we shall recommend it to advanced graduate students or researchers, having already been introduced to the solid-state physics. They shall find in it a systematic introduction of the concepts of solid-state theory, presented in a unified way, that is illuminating from many points of view."

Language Notes

Text: English (translation)

Original Language: German

From the Back Cover

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