

ELEMENTS OF SOLID STATE THEORY

By Professor G. H. Wannier
University of Oregon

Solid state physics is the application of physical principles—in particular, quantum mechanical principles—to provide a coherent quantitative picture of the properties of solids, in terms of the behaviour and inter-relation of the elementary particles of which they are composed. The subject has assumed great importance in recent years and has wide applications in electronics and in understanding the behaviour of engineering materials.

Professor Wannier's book presents a logical account of the subject, being intended as an introduction for students in their last undergraduate year or for graduates commencing a study of the subject. It is based on lecture courses which the author has given to students at the Bell Telephone Laboratories and at the University of Geneva.

Dr Wannier has succeeded in the difficult task of writing an excellent small book about a large subject. . . . He has concentrated on the essential concepts, and simplified the treatment so that it should be perfectly intelligible to the average graduate physicist. Without sacrifice of rigour and precision, we are led to the key mathematical arguments of the modern theories, purged of irrelevant details and ignoring merely manipulative stages. At the same time, the so-called "physical principles", which guide and are created by the mathematical theory, are always clearly stated. The writing is free-flowing and relaxed, with a twang of originality that makes agreeable reading. J. M. ZIMAN in *The Philosophical Magazine*

A remarkably lucid and coherent exposé of the theory behind present-day solid state physics. *Journal of the Franklin Institute*

The book can be recommended almost without reservation to anyone who has a good foundation in quantum mechanics, as an excellent survey of the important ideas of modern solid state theory. *Science*

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Clemens Wendtner



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