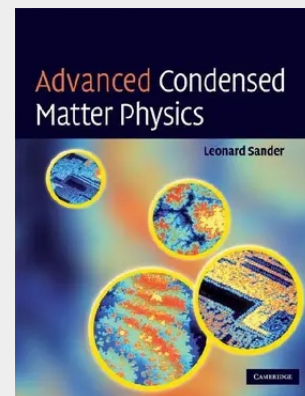


Advanced Condensed Matter Physics

This text includes coverage of important topics that are not commonly featured in other textbooks on condensed matter physics; these include surfaces, the quantum Hall effect and superfluidity. The author avoids complex formalism, such as Green's functions, which can obscure the underlying physics, and instead emphasizes fundamental physical reasoning. This text is intended for classroom use, so it features plenty of references and extensive problems for solution based on the author's many years of teaching in the Physics Department at the University of Michigan. This textbook is ideal for physics graduates as well as students in chemistry and engineering; it can equally serve as a reference for research students in condensed matter physics. Engineering students in particular, will find the treatment of the fundamentals of semiconductor devices and the optics of solids of particular interest.

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