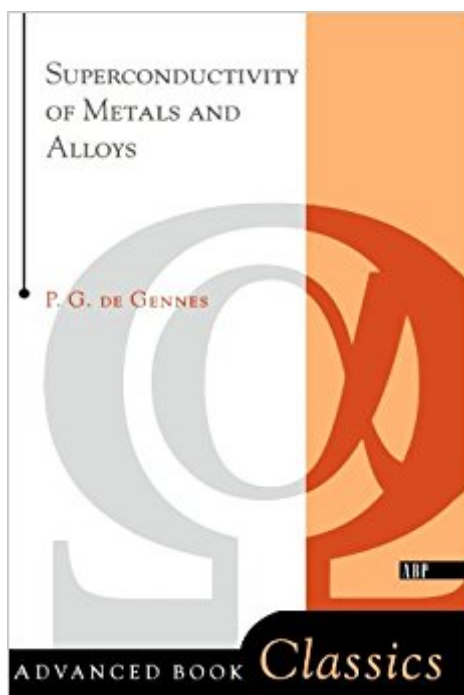


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Superconductivity Of Metals And Alloys (Advanced Books Classics)



Synopsis

Drawn from the author's introductory course at the University of Orsay, *Superconductivity of Metals and Alloys* is intended to explain the basic knowledge of superconductivity for both experimentalists and theoreticians. These notes begin with an elementary discussion of magnetic properties of Type I and Type II superconductors. The microscopic theory is then built up in the Bogolubov language of self-consistent fields. This text provides the classic, fundamental basis for any work in the field of superconductivity.

Book Information

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Customer Reviews

Text: English (translation) Original Language: French

P. G. De Gennes is Professor of Physics at the Collège de France. He is also the director of the Ecole de Physique et Chimie in Paris. He studied at the Ecole Normale Supérieure and has served as a research engineer at the Atomic Energy Saclay and as a post-doctoral visitor at the University of California, Berkeley. De Gennes has also been a Professor of Physics at the University of Orsay and is a member of the French Academy of Sciences, the Dutch Academy of Science. He is the author of three books. He was awarded the Nobel Prize in 1991.

Very useful, it has specific themes that allow to address problems in a direct way

Possibly the best superconductivity book I have ever read. He covers GL equations excellently - he builds them up from Landau theory of phase transitions, by constructing them using the Helmholtz free energy. As far as the microscopic theory goes, BCS is brought from the very beginnings, in a methodical, logical manner. The book is, however, a little mathematical for most people's tastes. A fair knowledge of quantum mechanics is needed before this book should be read (for example: Dirac notation, matrix algebra to mention a few).

It is not possibly the best superconductivity book I have ever read, it is certainly an everlasting standard for a textbook in physics. The generations of superconductivity researchers, including myself, have grown up as scientists upon reading this book. Even now, in the era of high temperature superconductivity, someone new in the field should read this book first.

I am interested in superconductivity and diffusion of superconductivity. I am studying superconductivity and electrodiffusion.

When I saw this book, I thought I had found a book that would explain Superconductivity in a manner that I could experiment with in my spare time. Obviously this book is written for those who have a good background in Theory and college level math; not the weekend garage inventor. With so many formulas to swim through I was lost in references that I had never heard of, not to mention could even put to use with my limited knowledge of the subject. For those out there wanting something simpler, look for a book with more illustrated pictures of the formulas in action and not entire pages of numbers, sub-typed Greek letters and squiggly line graphs.

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