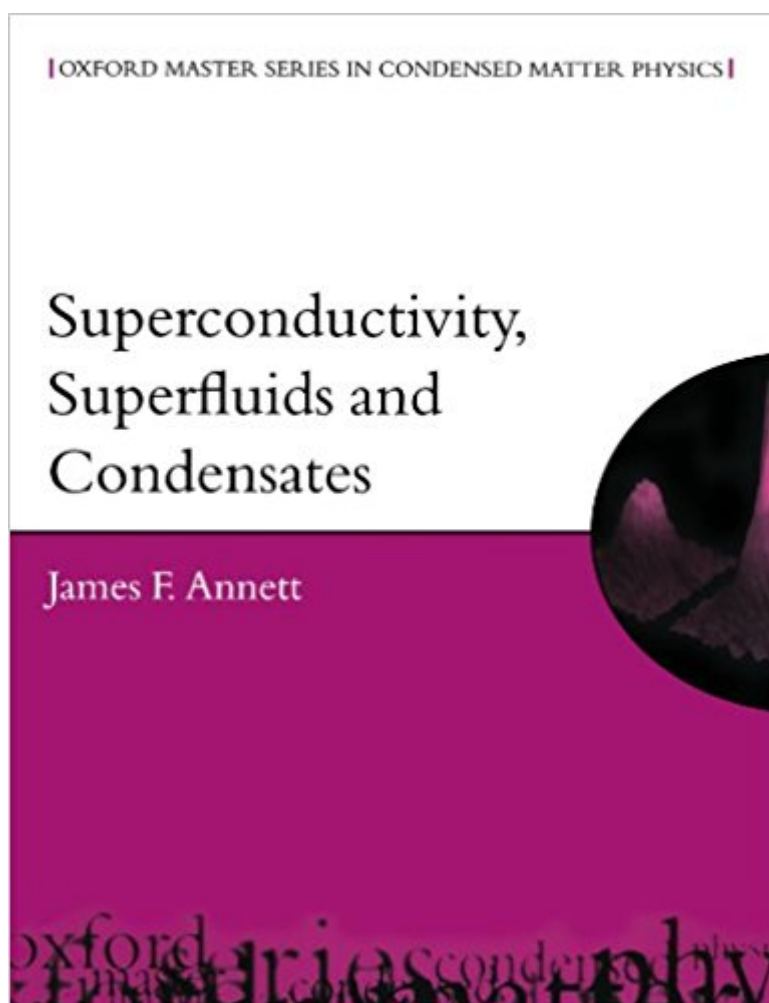


The book was found

Superconductivity, Superfluids, And Condensates (Oxford Master Series In Physics)



Synopsis

Superconductivity, provides a basic introduction to one of the most innovative areas in condensed matter physics today. This book includes ample tutorial material, including illustrations, chapter summaries, graded problem sets, and concise examples. This book is part of the Oxford Master Series in Condensed Matter Physics.

Book Information

Series: Oxford Master Series in Physics (Book 5)

Paperback: 200 pages

Publisher: Oxford University Press; 1 edition (June 3, 2004)

Language: English

ISBN-10: 0198507569

ISBN-13: 978-0198507567

Product Dimensions: 9.6 x 0.5 x 7.4 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 4 customer reviews

Best Sellers Rank: #455,957 in Books (See Top 100 in Books) #32 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Superconductivity #152 in Books > Science & Math > Physics > Electromagnetism > Electricity #155 in Books > Science & Math > Physics > Solid-State Physics

Customer Reviews

"Annett (physics, University of Bristol) covers three main strands in condensed matter physics in this text for senior undergraduate and graduate students. Subjects are developed in a way which gradually builds up key concepts and the necessary mathematical machinery. The book begins with a review of basics of the Bose-Einstein ideal gas before going into techniques of magnetic trapping and cooling of atoms and the discovery of Bose-Einstein condensates in dilute atomic gases. The physical phenomena of superfluidity are then introduced, and the theory of superconductivity is developed in stages, starting with simpler theories and then developing the mathematical concepts of a quantum coherent state. --SciTech Book News

James F. Annett is Professor of Physics at the University of Bristol, U.K. .

It's true the book has typos and minor errors. However, it is still an amazing book. This is probably

the best introduction to superconductivity ever written, from a pedagogical point of view. Not good for the expert, because it spends so much time explaining basic principles. However, for the beginner, this introductory book will not be an insult to your intelligence, and it will not waste any of your time. It goes straight to the important topics, and overview of current research while building up all the fundamentals needed. Some knowledge of solid state physics is recommended, in fact, probably essential (I can't see myself reading this intro without knowledge of ss physics). Anyhow, what I really liked about the book is how it spends time discussing each topic it introduces - for example, a thorough discussion of macroscopic coherent states is provided, and this is used to motivate the form of the BCS ground state wavefunction. I don't recall seeing this in other textbooks, at least, not at the beginner level. And the presentation by this author is impeccable (apart from the typos) and makes a lot of sense. This book is highly recommended.

This s*** is the bomb.

Judging from this volume, Annett seems to be a great teacher and a great writer. The distance between the material covered here and actual research is quite large, but that's OK, since the book is advertised as a pedagogical introduction, and it is really good at that. Every chapter includes a number of smartly-chosen problems, the solutions to which are given in an Appendix. I have given the book 4 stars instead of 5, because it suffers from horrendous copy-editing. Grammatical mistakes, typos in equations, wrong references to previous equations (and the list goes on). One gets the feeling that the publisher received the author's manuscript and published it as is. This makes it very difficult to understand why it's so expensive. Hopefully these errors will be removed in a future edition.

As most of the books of this serie, this one is also a successful introduction to the desired subject. The text is very pedagogical and the author never avoids a calculation which leads to an important result. Every formula is generally commented in order to extract the physics behind. All the important subjects related to BEC are touched. The main core of the book seems ,for me, understandable by a good undergraduate student. Of course that won't make you a specialist of this wide subject which required a lot of knowledges from different parts of physics , but at least the most important things will be kwnown and you will have the sufficent stuff to go more deeply in the subject of your choice with the required litterature (which may be found in the bibliography of the book). I think it deserves its five stars since the objectives of the books (being an clear introduction

without being too light) are definitely reached. Definitely a nice book !

[Download to continue reading...](#)

Superconductivity, Superfluids, and Condensates (Oxford Master Series in Physics) Vortices in Bose-Einstein Condensates (Progress in Nonlinear Differential Equations and Their Applications) Atomic Physics (Oxford Master Series in Physics) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Superfluidity and Superconductivity (Graduate Student Series in Physics) Theory of Nonequilibrium Superconductivity (International Series of Monographs on Physics) Superconductivity and Superconducting Wires (Horizons in World Physics) Introduction to Superconductivity: Second Edition (Dover Books on Physics) (Vol i) Statistical Mechanics: Entropy, Order Parameters and Complexity (Oxford Master Series in Physics) Kinetic Theory and Transport Phenomena (Oxford Master Series in Physics) Band Theory and Electronic Properties of Solids (Oxford Master Series in Physics) Relativity, Gravitation and Cosmology: A Basic Introduction (Oxford Master Series in Physics) Quantum Confined Laser Devices: Optical gain and recombination in semiconductors (Oxford Master Series in Physics) Structure and Dynamics: An Atomic View of Materials (Oxford Master Series in Physics) Soft Condensed Matter (Oxford Master Series in Condensed Matter Physics, Vol. 6) Optical Properties of Solids (Oxford Master Series in Physics) Magnetism in Condensed Matter (Oxford Master Series in Physics) Type II Superconductivity (International series of monographs in natural philosophy) Oxford Handbook of Political Psychology (Oxford Handbooks) published by Oxford University Press, USA (2003) Master Planning Success Stories: How Business Owners Used Master Planning to Achieve Business, Financial, and Life Goals (The Master Plan Book 2)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)