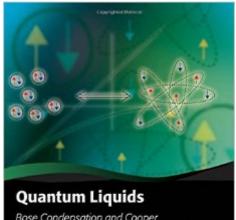
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# Quantum Liquids: Bose Condensation And Cooper Pairing In Condensed-Matter Systems (Oxford Graduate Texts)



Bose Condensation and Cooper Pairing in Condensed-Matter Systems

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## Synopsis

Starting from first principles, this book introduces the closely related phenomena of Bose condensation and Cooper pairing, in which a very large number of single particles or pairs of particles are forced to behave in exactly the same way, and explores their consequences in condensed matter systems. Eschewing advanced formal methods, the author uses simple concepts and arguments to account for the various qualitatively new phenomena which occur in Bose-condensed and Cooper-paired systems, including but not limited to the spectacular macroscopic phenomena of superconductivity and superfluidity; the physical systems discussed include liquid 4-He, the BEC alkali gases, "classical" superconductors, superfluid 3-He, "exotic" superconductors and the recently stabilized Fermi alkali gases. The book should be accessible to beginning graduate students in physics or advanced undergraduates.

#### **Book Information**

Series: Oxford Graduate Texts Hardcover: 408 pages Publisher: Oxford University Press; 1 edition (November 23, 2006) Language: English ISBN-10: 0198526431 ISBN-13: 978-0198526438 Product Dimensions: 9.8 x 1 x 6.6 inches Shipping Weight: 2 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars Â See all reviews (1 customer review) Best Sellers Rank: #1,275,524 in Books (See Top 100 in Books) #180 in Books > Science & Math > Physics > Nuclear Physics > Atomic & Nuclear Physics #424 in Books > Science & Math > Physics > Solid-State Physics #1147 in Books > Science & Math > Physics > Quantum Theory

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