

Theory Of Quantum Liquids: Superfluid Bose Liquids (Advanced Books Classics)

By Philippe Nozieres, David Pines



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Originally published as two separate volumes, *The Theory of Quantum Liquids* is a classic text that attempts to describe the qualitative and unifying aspects of an extremely broad and diversified field. Volume I deals with 'normal' Fremi liquids, such as 3He and electrons in metals. Volume II consists of a detailed treatment of Bose condensation and liquid 4He, including the development of a Bose liquid theory and a microscopic basis for the two-fluid model, and the description of the elementary excitations of liquid HeII.



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Editorial Review

About the Author

Phillipe Nozières: professor of physics at the Collège de France, Paris, he studied at the Ecole Normale Superièure in Paris and conducted research at Princeton University. Dr. Nozières has served as a professor at the University of Paris and at the University of Grenoble. His research is currently based at the Laue Langervin Institute in Grenoble. A member of the Acadèmie des Sciences, he has been awarded the Wolf Prize, the Holweck Award of the French Physical Society and the Institute of Physics, and the Gold Medal of the C.N.R.S. Dr. Nozières' work has been concerned with various facets of the many-body problem, and his work currently focuses on crystal growth and surface physics. David Pines: Center for Advanced Study professor of physics at the University of Illinois at Urbana-Champaign, he has made pioneering contributions to an understanding of many-body problems in condensed matter and nuclear physics, and to theoretical astrophysics. Editor of Perseus' Frontiers in Physics series and the American Physical Society's Reviews of Modern Physics, Dr. Pines is a member of the National Academy of Sciences and the American Philosophical Society, a Foreign Member of the Academy of Sciences of the U.S.S.R., and is a Fellow of the American Academy of Arts and Sciences and the Feenberg Memorial Medal for Contributions to Man-Body Theory in 1985, the P.A.M. Dirac Silver Medal for the Advancement of Theoretical Physics in 1984, and the Friemann Prize in Condensed Matter Physics in 1983. David Pines is research professor of physics at the University of Illinois at Urbana-Champaign. He has made pioneering contributions to an understanding of many-body problems in condensed matter and nuclear physics, and to theoretical astrophysics. Editor of Perseus' Frontiers in Physics series and former editor of American Physical Society's Reviews of Modern Physics, Dr. Pines is a member of the National Academy of Sciences, the American Philosophical Society, a foreign member of the USSR Academy of Sciences, a fellow of the American Academy of Arts and Sciences, and of the American Association for the Advancement of Science. Dr. Pines has received a number of awards, including the Eugene Feenberg Memorial Medal for Contributions to Many-Body Theory; the P.A.M. Dirac Silver Medal for the Advancement of Theoretical Physics; and the Friemann Prize in Condensed Matter Physics.

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