

**THEORY  
OF  
QUANTUM FLUIDS**

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*Eugene Feenberg*

# Theory Of Quantum Fluids

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## Theory Of Quantum Fluids:

**Theory of Quantum Fluids** Eugene Feenberg, 2012-12-02 Theory of Quantum Fluids is a concise report on the microscopic description of liquid  $^4\text{He}$  and liquid  $^3\text{He}$  in the physical density range using simple forms of the potential function between pairs of neutral atoms and the properties of the ground states and limited ranges of low excited states The monograph covers the properties of the radial distribution function and the three particle distribution particle the classical sound field and the correspondence principle paired phonon states in the free phonon approximation the uniform limit and the charged boson system and the microscopic theory of a single  $^3\text{He}$  atom in the  $^4\text{He}$  liquid Theoretical and experimental physicists will find the book very interesting *Theory of Quantum Liquids* Philippe Nozieres, David Pines, 1994-06-21 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 Fermi liquids such as  $^3\text{He}$  and electrons in metals Volume II consists of a detailed treatment of Bose condensation and liquid  $^4\text{He}$  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

**Theory Of Quantum Liquids** Philippe Nozieres, David Pines, 2018-03-05 This book provides a unified account of the theory of quantum liquid and discusses the mathematical theory of linear response and correlations It is helpful for experimental physicists working in the fields of low temperature or solid state physics

**Variational Theory of Quantum Fluids** Kevin Edward Schmidt, 1979 Quantum Fluids and Solids S. Trickey, 2012-12-06 The second International Symposium on Quantum Fluids and Solids came to pass during 23-27 Jan 1977 as the fourth and concluding part of the seventeenth consecutive running of the Sanibel Symposium Series With approximately 120 participants from eleven countries including for the first time the USSR we found it easy to obtain a selection of papers which was fairly comprehensive Indeed our problem was an embarrassment of riches in spite of our solemn vows not to crowd the schedule we ended up with an intense program By far the majority of the papers presented are represented in this volume We are indebted to many persons and organizations for their contributions to the Symposia First we thank Prof Per Olov Lowdin Director of the Quantum Theory Project and originator of the Sanibel Symposia Without his patient indulgent cooperation our task would have been vastly more difficult We are grateful to Prof F Eugene Dunnam Chairman of the Dept of Physics and Astronomy for providing Departmental support of our initial or ganizing expenses Approximately one half of the total cost of the Symposium was borne by a joint grant from the National Science Foundation and the U S Air Force Office of Scientific Research We thank the program officers Dr C Satterthwaite and Dr D

**Lectures on the Theory of Quantum Fluids** R. Sridhar, 1971\*

**Theory Of Quantum Liquids** David Pines, 2018-03-09 This book is concerned with a single group of quantum liquids normal Fermi liquids discussing the nature of elementary excitations the central concept of response functions It is intended as a text for a graduate course in quantum statistical mechanics or low temperature theory

**Aspects of the Kinetic Theory of Normal Quantum Fluids**, 1978 Attention is focused on the normal quantum fluid that is a quantum fluid for which in the hydrodynamic regime the equations of momentum and heat transport turn out to have the familiar Navier Stokes form Examples are sup 3 He above a few millidegrees and sup 4 He above the lambda transition In a superfluid by way of contrast the hydrodynamic equations contain extra degrees of freedom

**GHT Theory Of Quantum Liquids** Philippe Nozieres, 2018-03-05 This volume is devoted to the theory of superfluid quantum liquids describing the Landau theory of a neutral Fermi liquid in order to illustrate in comparatively elementary fashion the way both quantum statistics and particle interaction determine system behavior *Theory of Quantum Fluids* Leland Ray Whitney, 1981 [An Introduction to Quantum Fluids](#) Phuong Mai Dinh, Jesus Navarro, Eric Suraud, 2024-12-11 What do atomic nuclei neutron stars a domestic power supply and the stunning colors of stained glass in cathedrals all have in common The answer lies in the unifying concept of quantum fluids which allows us to understand the behavior and properties of these different systems in simple terms This book reveals how quantum mechanics usually considered as restricted to the invisible microscopic world in fact plays a crucial role at all scales of the universe The purpose of the book is to introduce the reader to the fascinating and multifaceted world of quantum fluids which covers different systems at different scales in the physical world The first part of the book discusses the notion of phases solid liquid gas presents basic aspects of the structure of matter and quantum mechanics and includes some elements of statistical mechanics The second part provides a description of the major quantum liquids starting with the paramount case of electron fluids and their many applications in everyday life followed by liquid helium and atomic nuclei The authors go on to explore matter at very high densities covering nuclear matter and compact stars and the behavior of matter at extremely low temperatures with the fascinating superphases of superconductivity and superfluidity The topic of quantum fluids has multidisciplinary applications and this book will appeal to students and researchers in physics chemistry astrophysics engineering and materials science

**On the Theory of Dynamic Properties for Semi-quantum Fluids** V. V. Ignatyuk, I. M. Mryglod, Instytut fizyki kondensovanykh system (Natsional'na Akademiia nauk Ukrainy), M. V. Tokarchuk, 1998 **A Primer on Quantum Fluids** Carlo F. Barenghi, Nick G. Parker, 2016-08-20 The aim of this primer is to cover the essential theoretical information quickly and concisely in order to enable senior undergraduate and beginning graduate students to tackle projects in topical research areas of quantum fluids for example solitons vortices and collective modes The selection of the material both regarding the content and level of presentation draws on the authors analysis of the success of relevant research projects with newcomers to the field as well as of the students feedback from many taught and self study courses on the subject matter Starting with a brief historical overview this text covers particle statistics weakly interacting condensates and their dynamics and finally superfluid helium and quantum turbulence At the end of each chapter apart from the first there are some exercises Detailed solutions can be made available to instructors upon request to the authors [The Theory of Quantum Liquids](#) Philippe

Nozières,1999 **Theory of Quantum Bose Liquids Beyond Bogoliubov Approximation** Abdulla Rakhimov, Shukhrat Mardonov, 2026-01-01 This book presents a comprehensive account of Bose Einstein Condensation BEC a fundamental phenomenon in quantum physics that reveals the collective behavior of bosonic systems at ultracold temperatures Bridging theoretical models with experimental developments and applied perspectives the book is structured to guide readers from foundational principles to advanced topics in the physics of quantum fluids It is intended for researchers and graduate students in theoretical physics particularly in condensed matter and ultracold atomic systems Topics include the distinction between quantum gases and liquids the role of the chemical potential in ultracold systems and the historical and theoretical development of interacting Bose gases since the early work of Bogoliubov The limitations of Bogoliubov theory particularly its applicability to weakly interacting systems and neglect of finite temperature effects are discussed along with recent advances such as the Lee Huang Yang LHY correction and the emergence of quantum droplets in two component Bose mixtures The book introduces field theoretical methods for many body systems covering spontaneous symmetry breaking Green functions Matsubara formalism and path integrals A central focus is the application of Optimized Perturbation Theory OPT also known as the variational Gaussian approximation or linear delta expansion to atomic BECs and quantum magnets triplons Theoretical developments are complemented by a brief overview of experimental methods

*Recent Progress in Many-Body Theories* H. Mitter, E. Schachinger, H. Sormann, 2012-12-06 The present volume contains the text of the invited talks delivered at the Eighth International Conference on Recent Progress in Many Body Theories held at SchloB Seggau Province of Styria Austria during the period August 22-26 1994 The proceedings of the Fifth Conference Oulu Finland 1987 the Sixth Conference Arad Israel 1989 and the Seventh Conference Minneapolis USA 1991 have been published by Plenum as the first three volumes of this series Papers from the First Conference Trieste Italy 1978 comprise Nuclear Physics volume A328 Nos 1 and 2 the Second Conference Oaxtepec Mexico 1979 was published by Springer Verlag as volume 142 of Lecture Notes in Physics entitled Recent Progress in Many Body Theories Volume 198 of the same series contains the papers from the Third Conference Altenberg 1983 These volumes intend to cover a broad spectrum of current research topics in physics that benefit from the application of many body theories for their elucidation At the same time there is a focus on the development and refinement of many body methods One of the major aims of the conference series has been to foster the exchange of ideas among physicists working in such diverse areas as nuclear physics quantum chemistry complex systems lattice Hamiltonians quantum fluids and condensed matter physics The present volume contains contributions from all these areas

The conference was dedicated on the occasion of Ludwig Boltzmann's 150 birthday Macroscopic Theory of Charged Quantum Fluids Ingenuin Gasser, P. A. Markowich, D. Schmidt, 1995 *Kinetic Theory of Normal Quantum Fluids* Jeffrey Bernard Smith, California Institute of Technology. Division of Chemistry and Chemical Engineering, 1975 Close to equilibrium a normal Bose or Fermi fluid can be described by an exact kinetic equation whose kernel is nonlocal in space and

time The general expression derived for the kernel is evaluated to second order in the interparticle potential The result is a wavevector and frequency dependent generalization of the linear Uehling Uhlenbeck kernel with the Born approximation cross section The theory is formulated in terms of second quantized phase space operators whose equilibrium averages are the  $n$  particle Wigner distribution functions Convenient expressions for the commutators and anticommutators of the phase space operators are obtained The two particle equilibrium distribution function is analyzed in terms of momentum dependent quantum generalizations of the classical pair distribution function  $h(k)$  and direct correlation function  $c(k)$  The kinetic equation is presented as the equation of motion of a two particle correlation function the phase space density density anticommutator and is derived by a formal closure of the quantum BBGKY hierarchy An alternative derivation using a projection operator is also given It is shown that the method used for approximating the kernel by a second order expansion preserves all the sum rules to the same order and that the second order kernel satisfies the appropriate positivity and symmetry conditions

A Beautiful Question Frank Wilczek, 2016-07-12 Does the universe embody beautiful ideas Artists as well as scientists throughout human history have pondered this beautiful question With Nobel laureate Frank Wilczek as your guide embark on a voyage of related discoveries from Plato and Pythagoras up to the present Wilczek's groundbreaking work in quantum physics was inspired by his intuition to look for a deeper order of beauty in nature This is the deep logic of the universe and it is no accident that it is also at the heart of what we find aesthetically pleasing and inspiring Wilczek is hardly alone among great scientists in charting his course using beauty as his compass As he reveals in A Beautiful Question this has been the heart of scientific pursuit from Pythagoras and the ancient belief in the music of the spheres to Galileo Newton Maxwell Einstein and into the deep waters of twentieth century physics Wilczek brings us right to the edge of knowledge today where the core insights of even the craziest quantum ideas apply principles we all understand The equations for atoms and light are almost the same ones that govern musical instruments and sound the subatomic particles that are responsible for most of our mass are determined by simple geometric symmetries Gorgeously illustrated A Beautiful Question is a mind shifting book that braids the age old quest for beauty and the age old quest for truth into a thrilling synthesis It is a dazzling and important work from one of our best thinkers whose humor and infectious sense of wonder animate every page Yes The world is a work of art and its deepest truths are ones we already feel as if they were somehow written in our souls

Variational Theory of Quantum Fluids Lauri J. Lantto, 1979

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