

BASIC SUPERFLUIDS



Tony Guénault



Basic Superfluids

Steven W. Van Sciver



Basic Superfluids:

Basic Superfluids Tony Guenault, 2002-11-28 Superfluidity is the jewel in the crown of low temperature physics. When temperatures are low enough every substance in thermal equilibrium must become ordered. Since some materials remain fluid to the lowest temperatures it is a fascinating question as to how this ordering can take place. One possibility is the formation of a superfluid state, a state in which there is macroscopic quantum order, effectively quantum mechanics in a tea cup. The author develops and presents these ideas in the beginning of *Basic Superfluids*. The book assumes some basic knowledge of quantum statistical and thermal physics and builds on this background to give a readable introduction to the three superfluids of low temperature physics. A short chapter describing experimental techniques is included. The emphasis throughout is on physical principles rather than technical detail, with the aim of introducing the subject in an accessible yet authoritative way to final year undergraduates or starting postgraduate students. **Basic Superfluids** Tony

Guenault, 2002-11-28 Superfluidity is the jewel in the crown of low temperature physics. When temperatures are low enough every substance in thermal equilibrium must become ordered. Since some materials remain fluid to the lowest temperatures it is a fascinating question as to how this ordering can take place. One possibility is the formation of a superfluid state, a

Macroscopic Theories of Superfluids G. Grioli, 1991-09-26 This book is based on lectures delivered at a meeting organised by the *Accademia Nazionale dei Lincei* with contributions from some of the leading research workers in the field. They deal with topics of contemporary interest such as solitons, hydrodynamic and nonlinear problems in superfluids, turbulence, thermodynamics, first and second sound, and the comparison between superconductivity and superfluidity. Experimental results and theoretical considerations are included. Thus the book will be an invaluable survey for research workers in superfluidity. *Superconductivity, Superfluids and Condensates* James F. Annett, 2004-03-25 This textbook

series has been designed for final year undergraduate and first year graduate students, providing an overview of the entire field, showing how specialized topics are part of the wider whole and including references to current areas of literature and research. *Non-equilibrium Thermodynamics of Superfluid Helium and Quantum Turbulence* Maria Stella Mongiovì, David

Jou, Michele Sciacca, 2025-07-23 This book puts together non-equilibrium thermodynamics, heat transport properties of superfluid He II, and thermodynamic and dynamic aspects of quantum turbulence. A one-fluid extended model of superfluid helium with heat flux as an additional independent variable is presented and compared with the two-fluid model to explore how both models complement each other. Important features arise in rotating situations and in superfluid turbulence, characterized by quantized vortices leading to strong nonlinearities between heat flux and temperature gradient. The dynamics of vortex lines and their interaction with heat dynamics, a central topic in superfluid turbulence, is dealt with by introducing the vortex line density as an independent variable and writing its dynamical equations, considering the transitions from laminar to turbulent flows and from diffusive to ballistic regimes. Classical and quantum turbulence are compared from

a mesoscopic view and from their energy spectra The work also explores some parallelisms of quantum vortex thermodynamics with cosmic string thermodynamics and black hole thermodynamics exhibiting duality connections amongst them It emphasizes didactical views over specialistic details and may be used as an introduction to nonequilibrium thermodynamics of superfluid helium and its heat transport properties second sound nonlocal transport nonlinear connections with quantum turbulence The book is useful to researchers in superfluid helium in heat transport and in thermodynamics of cosmic strings and black holes The diversity and complexity of its several physical equations will be inspiring for researchers in mathematical physics Superfluidity Fouad Sabry, 2022-01-17 What Is Superfluidity

Superfluidity is the characteristic property of a fluid with zero viscosity which therefore flows without any loss of kinetic energy When stirred a superfluid forms vortices that continue to rotate indefinitely Superfluidity occurs in two isotopes of helium when they are liquefied by cooling to cryogenic temperatures It is also a property of various other exotic states of matter theorized to exist in astrophysics high energy physics and theories of quantum gravity The theory of superfluidity was developed by Soviet theoretical physicists Lev Landau and Isaak Khalatnikov How You Will Benefit I Insights and validations about the following topics Chapter 1 Superfluidity Chapter 2 Superfluid vacuum theory Chapter 3 Boojum superfluidity Chapter 4 Condensed matter physics Chapter 5 Macroscopic quantum phenomena Chapter 6 Quantum hydrodynamics Chapter 7 Materials science II Answering the public top questions about superfluidity III Real world examples for the usage of superfluidity in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of superfluidity technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of superfluidity

Novel Superfluids K. H. Bennemann, John Boyd Ketterson, 2014 Volume 2 of Novel Superfluids continues the presentation of recent results on superfluids including novel metallic systems superfluid liquids and atomic molecular gases of bosons and fermions particularly when trapped in optical lattices Since the discovery of superconductivity Leyden 1911 superfluid ^4He Moscow and Cambridge 1937 superfluid ^3He Cornell 1972 and observation of Bose Einstein Condensation BEC of a gas Colorado and MIT 1995 the phenomenon of superfluidity has remained one of the most important topics in physics Again and again novel superfluids yield surprising and interesting behaviors The many classes of metallic superconductors including the high temperature perovskite based oxides MgB_2 organic systems and Fe based pnictides continue to offer challenges The technical applications grow steadily What the temperature and field limits are remains illusive Atomic nuclei neutron stars and the Universe itself all involve various aspects of superfluidity and the lessons learned have had a broad impact on physics as a whole *Superfluidity and Superconductivity* D.R. Tilley, J Tilley, 1990-01-01 Superfluidity and Superconductivity Third Edition introduces the low temperature phenomena of superfluidity and superconductivity from a unified viewpoint The book stresses the existence of a macroscopic wave function as a central

principle presents an extensive discussion of macroscopic theories and includes full descriptions of relevant experimental results throughout This edition also features an additional chapter on high temperature superconductors With problems at the end of most chapters as well as the careful elaboration of basic principles this comprehensive survey of experiment and theory provides an accessible and invaluable foundation for graduate students studying low temperature physics as well as senior undergraduates taking specialized courses

Introduction to Superfluidity Andreas Schmitt, 2014-07-15 Superfluidity and closely related to it superconductivity are very general phenomena that can occur on vastly different energy scales Their underlying theoretical mechanism of spontaneous symmetry breaking is even more general and applies to a multitude of physical systems In these lecture notes a pedagogical introduction to the field theory approach to superfluidity is presented The connection to more traditional approaches often formulated in a different language is carefully explained in order to provide a consistent picture that is useful for students and researchers in all fields of physics After introducing the basic concepts such as the two fluid model and the Goldstone mode selected topics of current research are addressed such as the BCS BEC crossover and Cooper pairing with mismatched Fermi momenta

Ion Tracks and Microtechnology Reimar Spohr, 1990

Quantum Gases: Finite Temperature And Non-equilibrium Dynamics Nick P Proukakis, Simon A Gardiner, Matthew Davis, Marzena Szymanska, 2013-02-21 The 1995 observation of Bose Einstein condensation in dilute atomic vapours spawned the field of ultracold degenerate quantum gases Unprecedented developments in experimental design and precision control have led to quantum gases becoming the preferred playground for designer quantum many body systems This self contained volume provides a broad overview of the principal theoretical techniques applied to non equilibrium and finite temperature quantum gases Covering Bose Einstein condensates degenerate Fermi gases and the more recently realised exciton polariton condensates it fills a gap by linking between different methods with origins in condensed matter physics quantum field theory quantum optics atomic physics and statistical mechanics Thematically organised chapters on different methodologies contributed by key researchers using a unified notation provide the first integrated view of the relative merits of individual approaches aided by pertinent introductory chapters and the guidance of editorial notes Both graduate students and established researchers wishing to understand the state of the art will greatly benefit from this comprehensive and up to date review of non equilibrium and finite temperature techniques in the exciting and expanding field of quantum gases and liquids

Helium Cryogenics Steven W. Van Sciver, 2012-02-10 Twenty five years have elapsed since the original publication of Helium Cryogenics During this time a considerable amount of research and development involving helium fluids has been carried out culminating in several large scale projects Furthermore the field has matured through these efforts so that there is now a broad engineering base to assist the development of future projects Helium Cryogenics 2nd edition brings these advances in helium cryogenics together in an updated form As in the original edition the author s approach is to survey the field of cryogenics with emphasis on helium fluids This approach is

more specialized and fundamental than that contained in other cryogenics books which treat the associated range of cryogenic fluids As a result the level of treatment is more advanced and assumes a certain knowledge of fundamental engineering and physics principles including some quantum mechanics The goal throughout the work is to bridge the gap between the physics and engineering aspects of helium fluids to provide a source for engineers and scientists to enhance their usefulness in low temperature systems Dr Van Sciver is a Distinguished Research Professor and John H Gorrie Professor of Mechanical Engineering at Florida State University He is also a Program Director at the National High Magnetic Field Laboratory NHMFL Dr Van Sciver joined the FAMU FSU College of Engineering and the NHMFL in 1991 initiating and teaching a graduate program in magnet and materials engineering and in cryogenic thermal sciences and heat transfer He also led the NHMFL development efforts of the cryogenic systems for the NHMFL Hybrid and 900 MHz NMR superconducting magnets Between 1997 and 2003 he served as Director of Magnet Science and Technology at the NHMFL Dr Van Sciver is a Fellow of the ASME and the Cryogenic Society of America and American Editor for the journal Cryogenics He is the 2010 recipient of the Kurt Mendelssohn Award Prior to joining Florida State University Dr Van Sciver was Research Scientist and then Professor of Nuclear Engineering Engineering Physics and Mechanical Engineering at the University of Wisconsin Madison from 1976 to 1991 During that time he also served as the Associate Director of the Applied Superconductivity Center Dr Van Sciver received his PhD in Low Temperature Physics from the University of Washington Seattle in 1976 He received his BS degree in Engineering Physics from Lehigh University in 1970 Dr Van Sciver is author of over 200 publications and patents in low temperature physics liquid helium technology cryogenic engineering and magnet technology The first edition of Helium Cryogenics was published by Plenum Press 1986 The present work is an update and expansion of that original project

A new trend on magnetic traps Carlos Uriarte González,2024-06-20 Statistical Physics Mr. Rohit Manglik,2024-09-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Statistical Physics A.M. Guenault,2007-09-21 In this revised and enlarged second edition Tony Guenault provides a clear and refreshingly readable introduction to statistical physics The treatment itself is self contained and concentrates on an understanding of the physical ideas without requiring a high level of mathematical sophistication The book adopts a straightforward quantum approach to statistical averaging from the outset The initial part of the book is geared towards explaining the equilibrium properties of a simple isolated assembly of particles The treatment of gases gives full coverage to Maxwell Boltzmann Fermi Dirac and Bose Einstein statistics

Matter , Navier-Stokes Turbulence Wolfgang Kollmann,2019-11-21 The book serves as a core text for graduate courses in advanced fluid mechanics and applied science It consists of two parts The first provides an introduction and general theory of fully developed turbulence where

treatment of turbulence is based on the linear functional equation derived by E Hopf governing the characteristic functional that determines the statistical properties of a turbulent flow In this section Professor Kollmann explains how the theory is built on divergence free Schauder bases for the phase space of the turbulent flow and the space of argument vector fields for the characteristic functional Subsequent chapters are devoted to mapping methods homogeneous turbulence based upon the hypotheses of Kolmogorov and Onsager intermittency structural features of turbulent shear flows and their recognition

Non-equilibrium Evaporation and Condensation Processes Yuri B. Zudin, 2019-03-12 This monograph is focused mostly on the exposition of analytical methods for the solution of problems of strong phase change A new theoretical model is proved useful in describing with acceptable accuracy problems of strong evaporation and condensation The book is the first to treat the problem of asymmetry for evaporation condensation A semi empirical model for the process is proposed for purposes of practical calculation of the process of strong evaporation The limiting schemes of the vapor bubble growth are analyzed The thermo hydrodynamic problem of evaporating meniscus of a thin liquid film on a heated surface is considered A theoretical analysis of the problem of evaporation of a drop levitating over a vapor cushion is performed The problem of vapor condensation upon a transversal flow around a horizontal cylinder is considered The second edition is extended by i the conjugate strong evaporation heat conduction problem ii the influence of accommodation coefficients on intensive processes of evaporation and condensation iii the problem of supersonic condensation This book is the first to present a comprehensive theoretical approach of boiling problems nucleate boiling superfluid helium phase transition similarity between pseudo boiling and subcritical pressure nucleate boiling The target audience primarily comprises research experts in the field of thermodynamics and fluid dynamics but the book may also be beneficial for graduate students **Discovering**

Superconductivity Gren Ireson, 2012-09-17 Superconductivity is a quantum phenomenon that manifests itself in materials showing zero electrical resistance below a characteristic temperature resulting in the potential for an electric current to run continually through such a material without the need for a power source Such materials are used extensively in medical and power applications e g MRI and NMR machines Discovering Superconductivity uses a series of practical and investigative activities which can be used as tutor demonstrations or as student lab exercises This highly illustrated text features the following sections Introduction including a brief history of superconductivity Superconductivity an explanation of the phenomenon and its effects Superconducting materials including High Low temperature superconductors Applications how superconductivity is used in medical imaging at CERN and in the Maglev trains This text will serve as an excellent introduction for students with or without a physics background to superconductivity With a strong practical experimental emphasis it provides readers with an overview of the topic preparing them for more advanced texts used in advanced undergraduate and post graduate courses PowerPoint files of the figures presented within this text are available at booksupport.wiley.com A word from the author The intention of this text is to introduce the reader to the study of

superconductivity via a minds on approach The minds on approach takes this a stage further by requiring the learner to engage with the process to a greater extent **Basic Notions Of Condensed Matter Physics** Philip W.

Anderson, 2018-03-09 Basic Notions of Condensed Matter Physics is a clear introduction to some of the most significant concepts in the physics of condensed matter The general principles of many body physics and perturbation theory are emphasised providing supportive mathematical structure This is an expansion and restatement of the second half of Nobel Laureate Philip Anderson's classic Concepts in Solids

Basic Superfluids Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Basic Superfluids**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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