

BASIC SUPERFLUIDS



Tony Guénault

Basic Superfluids

Raymond Wiley Simmonds



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 *Basic Superfluids* Tony Guenault, 2003-08-29 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 **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 and Superconductivity David R. Tilley, John Tilley, 1986 **Superfluids** Fritz London, 1964 **Superfluids: Macroscopic theory of superfluid helium** Fritz London, 1954 *Experiments Using 4He Weak Links* Yūki Satō, 2007 **Josephson Weak Links and Quantum Interference in Superfluid 3He** Raymond Wiley Simmonds, 2002 Development of and Experiments with Superfluid ^4He Weak Links Alexander Loshak, 1999 **A Study of Superfluid 3He Dynamics Using a Vibrating Wire Probe** Rena Joy Zieve, 1992 **Topics in Disordered Media and Superfluids** Alex Hansen, 1986

Magill's Survey of Science: The standard model-X-ray determination of molecular structure Frank Northen Magill, 1992

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