Superfluid helium has **zero viscosity**.



If you had a cup of liquid helium and gave it a swirl, the helium would spin forever.

Superfluid Helium

Peter Kittel

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The Superfluid Phases of Helium 3 Dieter Vollhardt, Peter Wolfle, 2013-10-17 This classic of modern theoretical physics is the first and only comprehensive treatment of the superfluid phases of helium 3 a crucial aspect of condensed matter physics with applications to many other fields The self contained approach explores ideas concepts and theoretical results emphasizing symmetries and the consequences of their spontaneous breakdown 1990 edition Superfluids:

Macroscopic theory of superfluid helium Fritz London, 1954 Superfluid Helium John Frank Allen, 1966

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

Superfluid Helium: a Symposium... August, 1965 J. F. Allen, 1966 Exotic Properties of Superfluid 3He G. E. Volovik,1992 This book discusses the unique properties of superfluid phases of 3He the condensed matter with the outmost broken symmetry which combine in a surprising way the properties of ordered magnets liquid crystals and superfluids The complicated vacuum state of these phases with a large number of fermionic and bosonic quasiparticles and topological objects remains the vacuum in modern quantum field theories Some of the objects and physical phenomena in 3He have strong analogy with the neutrino W bosons weak interactions gravity chiral anomaly Quantum Hall Effect and fractional statistics As an example of topological objects the quantized vortices in 3He phases are discussed in detail including singular and continuous vortices half quantum vortices broken symmetry in the vortex core and phase transitions between the vortex states with different symmetry and topology Physical Hydrodynamics Etienne Guyon, Jean-Pierre Hulin, Luc Petit, Catalin D. Mitescu, 2015 Exercises have also been added at the end of a number of chapters **Cryogenic Engineering** Peter Kittel, 1994 **Condensed Matter** M. P. Das, 2007 Condensed matter is one of the most active fields of physics with a stream of discoveries in areas from superfluidity and magnetism to the optical electronic and mechanical properties of materials such as semiconductors polymers and carbon nanotubes It includes the study of well characterised solid surfaces interfaces and nanostructures as well as studies of molecular liquids molten salts ionic solutions liquid metals and semiconductors and soft matter systems colloidal suspensions polymers surfactants foams liquid crystals membranes biomolecules etc including glasses and biological aspects of soft matter This book presents state of the art research in this exciting field Low Temperature Materials and Mechanisms Yoseph Bar-Cohen, 2016-08-19 This book addresses the growing interest in low temperature technologies Since the subject of low temperature materials and mechanisms is multidisciplinary the chapters reflect the broadest possible perspective of the field Leading experts in the specific subject area address the various related science and engineering chemistry material science electrical engineering mechanical engineering metallurgy and physics

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