

Journal of Low Temperature Physics

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Journal Of Low Temperature Physics

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Journal of low temperature physics [Anonymus AC07830962],1969 **Soviet Journal of Low Temperature Physics**,1982 **Special Issue: Low Temperature Physics (NT-37)** Dmitri Tayurskii,2016 **Proceedings of the 18th International Conference on Low Temperature Physics** Yōsuke Nagaoka,1987 *Progress in Low Temperature Physics*,2008-11-05

Progress in Low Temperature Physics Quantum Turbulence presents seven review articles on the recent developments on quantum turbulence. Turbulence has been a great mystery in natural science and technology for more than 500 years since the time of Leonardo da Vinci. Recently turbulence in quantum systems at low temperatures has developed into a new research field. Quantum turbulence is comprised of quantized vortices realized in superfluid helium and quantum gases of cold atoms. Some of the important topics include energy spectra, vibrating structures and visualization techniques. The understanding of these remarkable systems can have an impact on the general field of turbulence and will be of broad interest to scientists and students in low temperature physics, hydrodynamics and engineering. Key subjects covered: Energy spectra in quantum turbulence, Turbulent dynamics in rotating helium superfluids, a comparison of ^3He B and ^4He II, Quantum turbulence in superfluid ^3He at very low temperatures, The use of vibrating structures in the study of quantum turbulence, Visualization of quantum turbulence, Capillary turbulence on the surface of quantum fluids, Quantized vortices in atomic Bose-Einstein condensates. Crucial information for all experimenters in low temperature physics. **Matter and Methods at Low Temperatures** Frank Pobell,2007-02-15. This textbook contains information essential for successful experiments at low temperatures. The first chapters describe the low temperature properties of liquids and solid matter including liquid helium. Most of the book is devoted to refrigeration techniques and the physics on which they rely: the definition of temperature, thermometry and a variety of design and construction techniques. The lively and practical style make it easy to read and particularly useful to anyone beginning research in low temperature physics. Low temperature scientists will find it of great value due to its extensive compilation of materials data and relevant new results. *The XVth International Conference on Low Temperature Physics* International Conference on Low Temperature Physics,1978 **The XVth International Conference on Low Temperature Physics** International Conference on Low Temperature Physics,1978 *Progress in Low Temperature Physics* W.P. Halperin,1995-12-15. As the growing number of conference proceedings, preprints, periodicals and popular journal articles are being joined by various electronic forms of dissemination of research, the series *Progress in Low Temperature Physics* assumes a particular responsibility in providing excellent reviews guiding the reading of the literature and providing direction for future research possibilities. In this most recent volume the main theme is research on superfluid and adsorbed phases of helium. In five chapters the following topics are dealt with: Chapter one is a review of one of the essential characteristics of superfluid ^4He , the Landau critical velocity. Chapter two reviews the amazing properties of coherent spin dynamics in superfluid ^3He . The next chapter examines a

unique situation with a number of thermodynamic transitions between superfluid states and discusses the current experimental and theoretical situation Properties of phases of ^3He adsorbed on graphite are discussed in the following chapter and in a complementary final chapter a review is presented on the properties of multilayer ^3He ^4He mixture films

Heat Transfer Aziz Belmiloudi, 2011-01-28 Over the past few decades there has been a prolific increase in research and development in area of heat transfer heat exchangers and their associated technologies This book is a collection of current research in the above mentioned areas and discusses experimental theoretical and calculation approaches and industrial utilizations with modern ideas and methods to study heat transfer for single and multiphase systems The topics considered include various basic concepts of heat transfer the fundamental modes of heat transfer namely conduction convection and radiation thermophysical properties condensation boiling freezing innovative experiments measurement analysis theoretical models and simulations with many real world problems and important modern applications The book is divided in four sections Heat Transfer in Micro Systems Boiling Freezing and Condensation Heat Transfer Heat Transfer and its Assessment Heat Transfer Calculations and each section discusses a wide variety of techniques methods and applications in accordance with the subjects The combination of theoretical and experimental investigations with many important practical applications of current interest will make this book of interest to researchers scientists engineers and graduate students who make use of experimental and theoretical investigations assessment and enhancement techniques in this multidisciplinary field as well as to researchers in mathematical modelling computer simulations and information sciences who make use of experimental and theoretical investigations as a means of critical assessment of models and results derived from advanced numerical simulations and improvement of the developed models and numerical methods ~THEœ ... INTERNATIONAL

CONFERENCE ON LOW TEMPERATURE PHYSICS., 1978 **Special Issue: Low Temperature Physics Trends** Neil Sullivan, Jukka Pekola, Paul Leiderer, 2016 *Low Temperature Physics; Proceedings* International Conference on Low Temperature Physics, 19?? *Proceedings of the 18th International Conference on Low Temperature Physics : Kyoto, August 20 - 26, 1987 ; [LT-18]. 2. Contributed papers*, 1987 The XVth International Conference on Low Temperature Physics International Conference on Low Temperature Physics, 1978 **Proceedings of the 25th International Conference on Low Temperature Physics (LT25)** International Conference on Low Temperature Physics (25, 2008, Amsterdam), International Conference on Low Temperature Physics. 25, 2008, Amsterdam, 2009 *Low-Temperature Physics* Hans-Christian Stahl, Siegfried Hunklinger, 2005-04-05 Presents experiment theory and technology in a unified manner Contains numerous illustrations tables and references as well as carefully selected problems for students Surveys the fascinating historical development of the field **Proceedings of the 12th International Workshop on Low Temperature Detectors (LTD 12)** International Workshop on Low Temperature Detectors. 12, 2007, Paris, International Workshop on Low Temperature Detectors, 2008 Low Temperature Physics, 1974 *PROGRESS IN LOW TEMPERATURE*

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