

Low Temperature Physics

Low Temperature Physics Low Temperature Physics

Christian Enss, Siegfried Hunklinger



Low Temperature Physics Low Temperature Physics:

Low-Temperature Physics Christian Enss, Siegfried Hunklinger, 2005-12-05 Science is often a journey to the limits of the feasible and ascertainable In low temperature physics this journey strives towards absolute zero When Louis Cailletet on December 2nd 1877 realized a major step in terms of the production of low temperatures namely the first liquefaction of oxygen he could hardly imagine the wealth of exciting physical phenomena that would be discovered in this field Despite the anticipation from everyday experience which generally equates cold with discomfort and stifling condensed matter at low temperatures reveals a wide array of fascinating properties As the most prominent examples let us mention superfluidity and superconductivity whose attraction is undiminished since their discovery With every step towards lower temperatures numerous new insights have resulted which make the traditional subject of low temperature physics an attractive and modern research topic The present book is based on material from lectures that both authors have given several times at the universities of Heidelberg Bayreuth and Konstanz It is focused on the discussion of physical phenomena that become most apparent at low temperatures The book is mainly aimed at students and provides a compact and comprehensible introduction to various topics of low temperature physics Selection and emphasis of the material is subjective and certainly reflects our personal preferences However we have tried to give room for as wide a spectrum of topics as possible The contents are organized in three parts entitled quantum fluids solids at low temperatures and principles of refrigeration and thermometry

Low-Temperature Physics: an introduction for scientists and engineers P.V.E. McClintock, D.J. Meredith, J. K. Wigmore, 2012-12-06 This book is intended to provide a clear and unified introduction to the physics of matter at low temperatures and to do so at a level accessible to researchers new to the field and to graduate and senior undergraduate students Rapid scientific progress made over the last seven years in a number of specific areas for example high T_c superconductivity and the quantum Hall effect has inevitably rendered our earlier *Matter at Low Temperatures* somewhat out of date We have therefore taken the opportunity to revise and amend the text in its entirety and at the same time to furnish it with what we believe to be a more apt title emphasizing that it is with the physics of low temperatures that we are particularly concerned Like its predecessor *Low Temperature Physics* is devoted to the fascinating and diverse phenomena that occur under conditions of extreme cold many of which have no analogue at all in the everyday world at room temperature

Low Temperature Physics, 1993

Low Temperature Physics-LT 13 K.D. Timmerhaus, 2013-04-17 The 13th International Conference on Low Temperature Physics organized by the National Bureau of Standards Los Alamos Scientific Laboratory and the University of Colorado was held in Boulder Colorado August 21 to 25 1972 and was sponsored by the National Science Foundation the U S Army Office of Scientific Research the U S Atomic Energy Commission the U S Navy Office of Naval Research the International Institute of Refrigeration and the International Union of Pure and Applied Physics This international conference was the latest in a series of biennial conferences on low temperature physics the first

of which was held at the Massachusetts Institute of Technology in 1949 For a complete list of previous L T conferences see p viii Many of these past conferences have been coordinated and sponsored by the Commission on Very Low Temperatures of IUPAP Subsequent LT conferences will be scheduled triennially beginning in 1975 LT 13 was attended by approximately 1015 participants from twenty five countries Eighteen plenary lectures and 550 contributed papers were presented at the Conference The Conference began with brief introductory and welcoming remarks by Dr R H Kropschot on behalf of the Organizing Committee Professor J Bardeen on behalf of the Commission on Very Low Temperatures of the IUP AP and Professor O V Lounasmaa on behalf of the International Institute of Refrigeration The eighth London Award was then presented by Professor E *Matter and Methods at Low Temperatures* Frank Pobell, 1996 Problems after each chapter

High-Pressure and Low-Temperature Physics J.A. Woollam, C.W. Chu, 2012-12-06 High pressure science is a rapidly growing diverse field The high pressure technique has become a powerful tool for both the study and preparation of materials In spite of the many high pressure conferences held in recent years I felt that there was a need for scientists within a well defined area not bound merely by the common experimental technique to meet in an atmosphere conducive to frank exchange and close interaction In this spirit the Cleveland State University hosted such a conference from July 20 to 22 1977 in which the physics of solids under high pressures and at low temperatures was specifically examined Both the original and review papers presented at the conference and the candid discussions following their presentations appear in this volume They clearly cover a rather complete spectrum of current research in the physics of solids at high pressures and low temperatures I wish to thank the National Aeronautics and Space Administration the Office of Naval Research and the National Science Foundation for their financial support of the conference In addition I wish especially to thank Steinar Huang for his unceasing assistance in arranging this conference I also wish to thank him and Francis Stephenson for their assistance in preparing this book C W Chu Chairman International Conference on High Pressure and Low Temperature Physics v Contents HYDROGEN AND METAL HYDRIDES Chairman I Spain PROSPECTS FOR METALLIC HYDROGEN 1 A L

Experimental Low Temperature Physics T. Kent, 1992-10-01 Market Graduate students in condensed matter and atomic and molecular physics This engagingly written book introduces the field and provides important information for those making low temperature measurements Fundamental thermodynamic considerations are covered at the start and the book concludes with commercial applications and an appendix on laser cooling **Progress in Low Temperature Physics**

, 1991-12-17 Since 1955 Progress in Low Temperature Physics has continued to monitor scientific achievements in the realm of low temperature physics Obtaining low temperatures used to be an aim in itself in the past whereas nowadays achieving millikelvin temperatures is a routine experimental procedure However the properties of materials at these low temperatures continue to produce fascinating physics the liquid solid and superfluid phases of the quantum fluids ^3He and ^4He as well as new materials such as high temperature superconductors and tiny quantum devices display their macroscopic quantum

behavior only at the lowest temperatures Volume XIII of this series continues the tradition of collecting fundamental studies of macroscopic quantum phenomena In this volume properties of new systems such as small circuits at low temperatures and high T_c superconductors are studied But the systems that are formed by ^3He and ^4He and their mixtures at low temperatures continue to dazzle and amaze with their ever more intricate properties studied with increasing accuracy This volume provides the reader with an archival overview of the magic world of low temperatures as perceived by today's most sensitive probes *Low-Temperature Physics: an introduction for scientists and engineers* P.V.E. McClintock,D.J.

Meredith,J. K. Wigmore,2012-11-08 This book is intended to provide a clear and unified introduction to the physics of matter at low temperatures and to do so at a level accessible to researchers new to the field and to graduate and senior undergraduate students Rapid scientific progress made over the last seven years in a number of specific areas for example high T_c superconductivity and the quantum Hall effect has inevitably rendered our earlier *Matter at Low Temperatures* somewhat out of date We have therefore taken the opportunity to revise and amend the text in its entirety and at the same time to furnish it with what we believe to be a more apt title emphasizing that it is with the physics of low temperatures that we are particularly concerned Like its predecessor *Low Temperature Physics* is devoted to the fascinating and diverse phenomena that occur under conditions of extreme cold many of which have no analogue at all in the everyday world at room temperature **Low Temperature Physics; Proceedings** International Conference on Low Temperature Physics,19??

Low-Temperature Physics P V E McClintock,D J Meredith,J K Wigmore,1991-11-30 **Proceedings of the Eighth International Conference on Low Temperature Physics** R. O. Davies,1963 **Proceedings of the International Conference on Low Temperature Physics** R. Bowers,1951 **Low Temperature Physics** M. Ruhemann,B. Ruhemann,2014-05-08 Originally published in 1937 this book discusses of the principal problems that have occupied low temperature physicists *Low Temperature Physics* ,1985 *Low Temperature Physics-LT 13* K. D. Timmerhaus,W. J. O'Sullivan,E. F. Hammel,1974-08-01 *Progress in Low Temperature Physics* ,2000-04-01 *Progress in Low Temperature Physics* *Low Temperature Physics-LT 13* K. D. Timmerhaus,W. J. O'Sullivan,E. F. Hammel,2013-11-21 The 13th International Conference on Low Temperature Physics organized by the National Bureau of Standards Los Alamos Scientific Laboratory and the University of Colorado was held in Boulder Colorado August 21 to 25 1972 and was sponsored by the National Science Foundation the U S Army Office of Scientific Research the U S Atomic Energy Commission the U S Navy Office of Naval Research the International Institute of Refrigeration and the International Union of Pure and Applied Physics This international conference was the latest in a series of biennial conferences on low temperature physics the first of which was held at the Massachusetts Institute of Technology in 1949 For a complete list of previous L T conferences see p viii Many of these past conferences have been coordinated and sponsored by the Commission on Very Low Temperatures of IUPAP Subsequent LT conferences will be scheduled triennially beginning in 1975 LT 13 was attended by approximately 1015

participants from twenty five countries Eighteen plenary lectures and 550 contributed papers were presented at the Conference The Conference began with brief introductory and welcoming remarks by Dr R H Kroppschot on behalf of the Organizing Committee Professor J Bardeen on behalf of the Commission on Very Low Temperatures of the IUP AP and Professor O V Lounasmaa on behalf of the International Institute of Refrigeration The eighth London Award was then presented by Professor E

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

Low Temperature Physics Y. Takano, 2006-11-22 This book represents recent cutting edge developments in low temperature physics reported at one of the largest international conferences in physics The subjects covered are superconductivity magnetism quantum gases quantum liquids and solids electronic properties of solids low temperature experimental techniques cryogenics and applications

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