

C. J. GORTER

# PROGRESS IN LOW TEMPERATURE PHYSICS

VOLUME 4

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# Low Temperature Physics Lt13 4vol

**K. D. Timmerhaus, W. J. O'Sullivan, E. F.  
Hammel**



## **Low Temperature Physics Lt13 4vol:**

**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

**Low Temperature Physics-LT 13** K. D. Timmerhaus, W. J. O'Sullivan, E. F. Hammel, 1974-08-01 **Low Temperature Physics-LT 13** 3Island Press, 1974-08-01 *Low Temperature Physics - LT 13*, 1974 **Nuclear Science Abstracts**, 1975-04 **Low Temperature Physics-Lt 13: electronic Properties, instrumentation, measurement** K.D. Timmerhaus, **Low Temperature Physics - Lt13** E. F. Hammel, W. J. O'Sullivan, K. D. Timmerhaus, 1974 **Scientific and Technical Books and Serials in Print**, 1984 **Low Temperature Physics-LT 13** K. D. Timmerhaus, W. J. O'Sullivan, E. F. Hammel, 1974-08-01 [Low Temperature Physics-LT 13](#) K. D. Timmerhaus, W. J. O'Sullivan, E. F. Hammel, 1974-08-01 **List of Accessions to the Library** Science Museum (Great Britain). Library, 1975 [The Publishers Weekly](#), 1974 **Subject Guide to Books in Print**, 1984 **Low Temperature Physics - LT 13**, 1974

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**properties, instrumentation, and measurement** Klaus D. Timmerhaus, William John O'Sullivan, E. F. Hammel, 1974

[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* :LT 13 K. D. Timmerhaus, W. J. O'Sullivan, E. F. Hammel, 1974      **Low Temperature Physics-LT 13** K. D. Timmerhaus, W. J. O'Sullivan, E. F. Hammel, 1974-08-01

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