

Paperback Re-issue

This book is a concise introduction to the experimental technicalities of low and ultralow temperature physics research. The author has made extensive use of diagrams as aids to understanding, and refers the reader to the professional literature at appropriate points in the text.

The book begins with an introduction to the thermodynamic principles of refrigeration and thermometry. It covers the properties of fluid $^3\text{He}/^4\text{He}$ mixtures and the most important practical means of achieving low temperatures, including dilution and Pomeranchuk refrigeration and adiabatic nuclear demagnetisation.

This basic introduction to the subject will be of value to postgraduate students beginning research in low temperature physics, and to seasoned researchers moving into the field. It could also be used by advanced undergraduates taking low temperature physics courses.

Cambridge Studies in Low Temperature Physics

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Cambridge Studies in Low Temperature Physics is an international series which contains books at the graduate text level and above on all aspects of low temperature physics. This includes the study of condensed state helium and hydrogen, condensed matter physics studied at low temperatures, superconductivity and superconducting materials and their applications.

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