PROCEEDINGS

OF THE

EIGHTH INTERNATIONAL CONFERENCE

ON

LOW TEMPORATURE PHYSICS

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EIGHTH INTERNATIONAL CONFERENCE

ON

LOW TEMPERATURE PHYSICS

Held at Queen Mary College, London
16–22 September 1962

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LONDON
BUTTERWORTHS
1963

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Introduction

At the Eighth International Conference on Low Temperature Physics, held at Queen Mary College in September 1962, there were 164 papers contributed on the following topics: Helium 3, Macroscopic Quantization in Helium and in Superconductors, Superconductivity in Relation to the Transition Elements, Spin Ordering at Low Temperatures, Spin–Phonon Interactions, Lattice Dynamics and Applications of Low Temperature Phenomena (including High-Field Superconductivity).

The papers are collected in these Proceedings, together with the full text of nine 'keynote' lectures on the same topics, delivered by invited speakers. Taken together, they provide a summary indication of current work in much of low temperature physics and leads to the recent literature.

As well as the Conference Papers, the Proceedings include the Fritz London Memorial Lecture delivered at the Conference by John Bardeen: 'Development of Concepts in Superconductivity'; this has also appeared in *Physics To-day*, January 1963.

The success of the Conference was assured by generous contributions from the following firms and agencies:

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The Conference Committee was constituted as follows: G. O. Jones (Convenor), R. O. Davies, F. E. Hoare, N. Kurti, D. H. Martin, D. Shoenberg and W. F. Vinen.

Acknowledgement is made to The Royal Society, London, for courteously allowing the reproduction of Figs. 2 and 3, pp. 70, 71, from *Proc. R. Soc.* A260 (1961) 218, and of Fig. 7, p. 390, from *Proc. R. Soc.* A260 (1961) 263.

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Suggested U. D. C. number: 536.48 (063)
Additional U. D. C. number: 537.312.62 (063)

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The Contributors given on pp. xiii–xxi
1963

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Spottiswoode, Ballantyne and Co. Ltd.
London and Colchester

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