

Helium Three

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It is now over twenty years since the first experiments on Helium Three were performed. In that time there has been a remarkable development in our understanding of the properties of this most unusual form of matter. This book is intended to give a comprehensive account of the present state of knowledge about Helium Three. It is based on a series of lectures given at the University of Sussex during the academic year 1977-78. The author wishes to thank the members of the audience for their stimulating questions and comments which have greatly improved the final version of the book.

The book is divided into four main parts. The first part is concerned with the basic properties of Helium Three and its relation to the more familiar forms of helium. The second part deals with the magnetic properties of Helium Three and the third part with the thermal properties. The fourth part is concerned with the applications of Helium Three and the future prospects for its use.

It is hoped that this book will be of interest to both students and researchers in the field of low temperature physics.

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