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E. R. Dobbs

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The discovery of the astonishing properties of helium three crystals has been one of the hottest topics in low temperature physics over the last two decades. This book provides the first complete account of those properties, including descriptions and interpretations of critical experimental measurements. Beginning with the phase diagram and thermal properties of this uniquely quantum crystal, the author skillfully introduces current theories of solid helium and compares their predictions with measurements of the ground state, elastic and thermal properties, and phonon spectra. The extraordinary magnetic properties are described and discussed in chapters devoted to the paramagnetism, antiferromagnetism, and ferromagnetism of the different phases of solid helium. The text concludes with chapters on crystal growth and defects, and sections on monolayers, bilayers, and multilayers grown on a variety of substrates. Students and researchers in condensed matter physics, physical chemistry, and applied mathematics will welcome this exceptional new book.

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