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Magnetism in Condensed Matter STEPHEN BLUNDELL Department of Physics University of Oxford OXFORD 'UNIVERSITY PRESS. Contents 1 Introduction 1 1.1 Magnetic moments 1 1.1.1 Magnetic moments and angular momentum 2 1.1.2 Precession 3 ... D Energy in magnetism and demagnetizing fields 214

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An understanding of the quantum mechanical nature of magnetism has led to the development of new magnetic materials which are used as permanent magnets, sensors, and information storage. Behind these practical applications lie a range of fundamental ideas, including symmetry breaking, order parameters, excitations, frustration, and reduced dimensionality.

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- Structure and Dynamics, by M.T. Dove, Oxford University Press This is a more advanced book that covers scattering in particular. It is used in the Condensed Matter option 4-th year course.
- Magnetism in Condensed Matter, by Stephen Blundell, OUP Well written advanced material on the magnetism part of the course. It is used in the

Magnetism in condensed matter - University of Oxford

Magnetism in Condensed Matter My textbook on magnetism was published by Oxford University Press in October 2001. It takes the reader from the basics of the quantum mechanics of magnetism through to symmetry breaking, excitations and applications.

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Dublin January 2007 2 Further Reading: • David Jiles Introduction to Magnetism and Magnetic Materials, Chapman and Hall 1991; 1997 A detailed introduction, written in a question and answer format. • Stephen Blundell Magnetism in Condensed Matter, Oxford 2001 A new book providing a good treatment of the basics

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Magnetism in Condensed Matter presents a logical account of these ideas, starting from basic concepts in electromagnetism and quantum mechanics. It outlines the origin of magnetic moments in atoms and how these moments can be affected by their local environment inside a crystal.

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Written for undergraduates who have knowledge of basic quantum mechanics, electromagnetism, and some atomic physics, this clearly organized text introduces magnetism in condensed matter systems. The chapters are laid out with tables, annotation, and some of the figures incorporated into the wide outside margins.