



Introduction to Magnetism and Magnetic Materials, Third Edition

David Jiles

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A long overdue update, this edition of **Introduction to Magnetism and Magnetic Materials** is a complete revision of its predecessor. While it provides relatively minor updates to the first two sections, the third section contains vast updates to reflect the enormous progress made in applications in the past 15 years, particularly in magnetic recording. The book includes significant updates to soft magnetic materials, hard magnetic materials, magnetic data storage, and magnetic evaluation of materials. It also adds new information on magneto-transport, small particles, nanomagnetism, magnetic semiconductors, spintronics, and high-frequency magnetism.

See What's New in the Third Edition

- New coverage of applications of magnetism and magnetic materials, especially in magnetic recording
- Additional exercises with complete worked-out solutions at the end of the book
- Updated references at the end of each chapter

The book adopts an unusual but effectively focused question-answer framework. Each major head is introduced by a question followed by an attempt to answer. This approach maintains attention to the subject matter at hand and clarifies the objective of each section without needless digression. Each chapter also features updated and new exercise problems, accompanied by a solutions manual at the back of the book. This edition gives you an excellent introduction to the key and current theories, practices, and applications of magnetism and magnetic materials.

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