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High Magnetic Fields



Synopsis

High magnetic fields and the industrial applications of this technology are rapidly developing areas. This book is based on lectures given at the international workshop "High Magnetic Fields: Industry, Materials, and Technology", held at the National High Magnetic Field Laboratory in Tallahassee, Florida, in February 1996. It is, however, far more than the proceedings of this meeting. The lecturers have provided in-depth contributions and well-focused overview articles on their fields. The book includes fifty papers reporting the exciting potential of high magnetic fields for applications, such as process control, energy storage, material processing, levitated trains, and aneutronic fusion devices. It describes the various technologies used to generate the highest magnetic fields with resistive, pulsed, and superconducting magnets. The limitations on the generation of high magnetic fields imposed by presently available materials are shown. Finally, the important role national laboratories play as user facilities in helping to link basic and applied research with future industrial applications is explained.

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