

High Field Magnetism



High Field Magnetism presents the proceedings of the International Symposium on High Field Magnetism held at the Osaka University and Hotel Plaza in Osaka on September 13-14, 1982 as a satellite symposium of the International Conference on Magnetism-1982-Kyoto. The symposium tackled a wide variety of high field generation methods and material systems, with magnetism orientation as the main objective. A special Technical Exposition was held in the poster session where representatives from MIT, Grenoble, and other high field facilities were invited to give a descriptive review of each laboratory. This book is divided into eight parts, beginning with an introductory chapter into the subject of high field magnetism. The succeeding parts focus on magnetic interactions and phase transitions in high magnetic fields; metals and alloys in high magnetic fields; high field superconductivity; spin and charge fluctuations in high magnetic fields; high field magneto-optics; high field magnetic resonance; and high magnetic field facilities and techniques. This book will be of interest to practitioners in the fields of cryogenic engineering and applied physics.

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