



Chan-Joong Kim

Superconductor Levitation

Concepts and Experiments

- Features more than 20 demonstration experiments of magnetic levitation using superconducting phenomena
- Supported by original color photographs throughout to illustrate these practical demonstrations
- Explains superconductor levitation without using complex formulas for ease of understanding

This book introduces the physical principles behind levitation with superconductors, and includes many examples of practical magnetic levitation demonstrations using superconducting phenomena. It features more than twenty examples of magnetic levitation in liquid nitrogen using high temperature superconductors and permanent magnets, all invented by the author. The book includes the demonstration of suspension phenomenon induced by magnetic flux pinning as well as magnetic levitation by the Meissner effect. It shows how superconducting magnetic levitation and suspension phenomena fire the imagination and provide scientific insight and inspiration. This book will be a useful experimental guide and teaching resource for those working on superconductivity, and a fascinating text for undergraduate and graduate students.

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