

Springer

1st  
edition1st ed. 2019, XV, 239 p.  
233 illus., 231 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-981-13-6767-0

\$ 149,99

Available

**Discount group**

Professional Books (2)

**Product category**

Monograph

Physics : Strongly Correlated Systems, Superconductivity

Kim, Chan-Joong, Korea Atomic Energy Research Institute, Daejeon, Korea (Republic of)

# 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.

**Order online at [springer.com/booksellers](https://www.springer.com/booksellers)****Springer Nature Customer Service Center LLC**

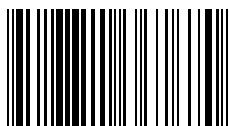
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)

ISBN 978-981-13-6767-0 / BIC: TJFD5 / SPRINGER NATURE: SCP25064

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**