

## Superconductivity Basics And Applications To Magnets Springer Series In Materials Science

1 Fundamental Properties of Superconductors

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About this book. This book presents the basics and applications of superconducting magnets. It explains the phenomenon of superconductivity, theories of superconductivity, type II superconductors and high-temperature cuprate superconductors. The main focus of the book is on the application to superconducting magnets to accelerators and fusion reactors and other applications of superconducting magnets.

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Applications of Superconductors Some important applications of superconductors are: Superconductors are used for producing very strong magnetic field of about 20 – 30 T which is much larger than the field obtained from an electromagnet and such high magnetic fields are required in power generators .

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The pursuit of superconductivity makes for an exciting story, full of suspense, red herrings, scandalous behavior on the part of certain atomic particles, a take-home message on the benefits of cooperation and, potentially, a very happy ending. And, as do all good stories, ours has a hero. We will call him, simply, SuperConductor.

Superconductivity 101 - MagLab

R.G. Sharma, "Superconductivity: Basics and Applications to Magnets " English | ISBN: 3319137123 | 2015 | 414 pages | EPUB, PDF | 11 MB + 16 MB

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