



MgB₂ Superconducting Wires: Basics and Applications (World Scientific Series in Applications of Superconductivity and Related Phenomena)

Rene Flukiger

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The compendium gives a complete overview of the properties of MgB₂ (Magnesium Diboride), a superconducting compound with a transition temperature of $T_c = 39\text{K}$, from the fundamental properties to the fabrication of multifilamentary wires and to the presentation of various applications. Written by eminent researchers in the field, this indispensable volume not only discusses superconducting properties of MgB₂ compounds, but also describes known preparation methods of thin films and of bulk samples obtained under high pressure methods.

A unique selling point of the book is the detailed coverage of various applications based on MgB₂, starting with MRI magnets and high current cables, cooled by Helium (He) vapor. High current cables cooled by liquid hydrogen are also highlighted as an interesting alternative due to the shrinking He reserves on earth. Other pertinent subjects comprise permanent magnets, ultrafine wires for space applications and wind generator projects.

Readership: Researchers, academics, professionals and graduate students in materials engineering, materials science, and solid state physics.

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