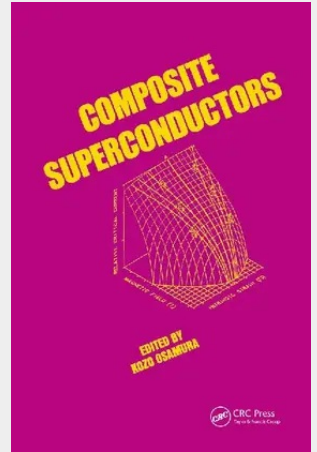


Composite Superconductors

This reference examines the tremendous benefits produced by the use of superconductivity, including the realization of a commercial fusion reactor for the generation of electricity. Providing a comprehensive coverage of superconductivity and magnet design - incorporating background information for beginners as well as research advances for specialists - this work: discusses the historical development of superconductivity and its engineering applications; explains the mechanical properties of the metal matrix composite; describes the important electromagnetic factors for the design of composite superconductors; analyzes the fabrication and optimization of various composite superconductors; and assesses the future development of high T_c oxide superconductors for engineering applications. This title is intended for: physicists; metallurgists; materials scientists; materials, electrical, mechanical, cryogenic and medical engineers; and graduate students in these disciplines.

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380,00 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780824791179

Medium: Buch

ISBN: 978-0-8247-9117-9

Verlag: CRC Press

Erscheinungstermin: 16.11.1993

Sprache(n): Englisch

Auflage: 1. Auflage 1993

Serie: Applied Physics

Produktform: Gebunden

Gewicht: 867 g

Seiten: 440

Format (B x H): 157 x 235 mm

