SUPERCONDUCTING ENGINEERING

Quan-Sheng Shu

(Chief Editor & Main Author)

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Book Review

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"The development and application of superconducting materials represent one of the most significant advancements in modern science and technology. The utilization of superconducting materials continues to play a pivotal role in advancing science, industry, and the economy.

This book “Superconducting Engineering” offers 570 pages of comprehensive information, encompassing some of the most crucial aspects of superconducting theory, superconductive materials, superconducting magnets, and applications of superconductivity. The applications and devices introduced in this text include, but are not limited to, superconducting magnets, equipment used in high-energy physics and fusion, MHD (Magnetohydrodynamics) technology, motors, generators, power transmission lines, magnetic separation machines, Josephson devices, and various biomedical applications. Additionally, this book systematically introduces design techniques for superconducting instruments and cryostats.

'Superconducting Engineering' is meticulously organized and references many excellent sources within the fields of interest. This makes it an invaluable resource for scientists, researchers, engineers, professors, graduate students, and technicians interested in the fields of cryogenics and superconductivity.

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