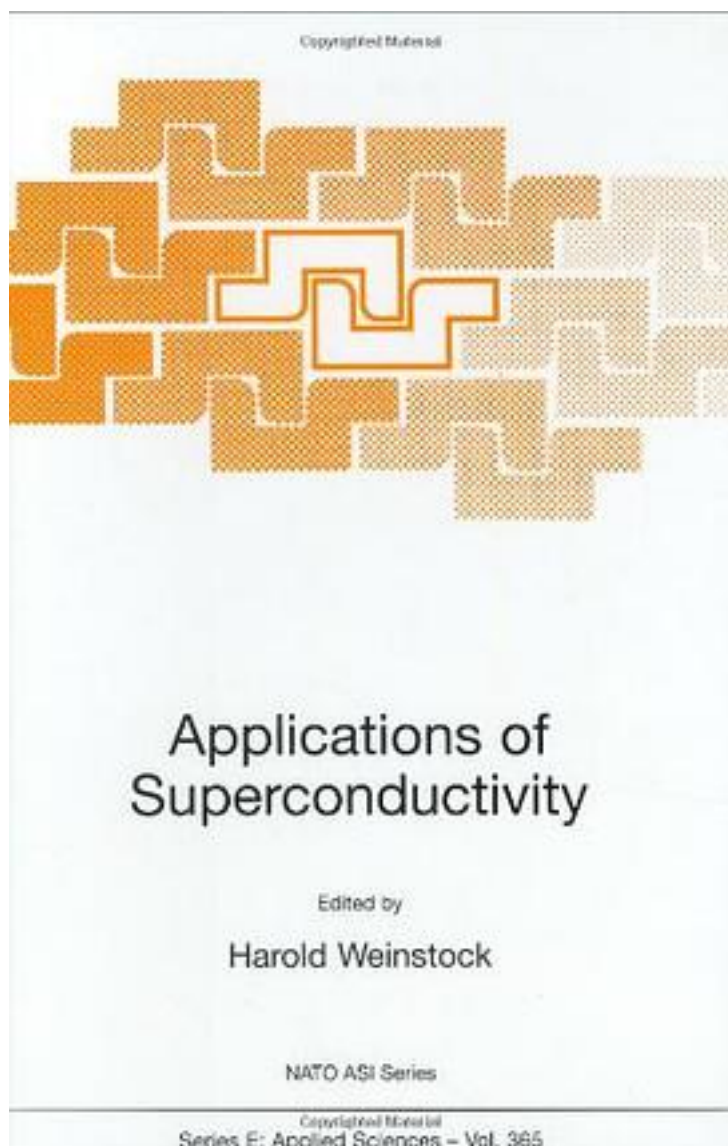


Applications of Superconductivity



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The volume presents in-depth scientific coverage of a vast number of superconductor-based applications. Some of these applications are quite mature, e.g. LTS magnets for MRI, while many others are at various stages of maturity. The first three chapters are devoted to understanding of the principles, fabrication and uses of SQUID magnetometers and gradiometers. The next three cover broader aspects of superconducting electronics - digital LTS circuits and passive component applications using HTS materials. The following four chapters go into magnetic applications. Chapter 11 deals with the fabrication of HTS tapes of BSCCO material. Chapter 12 addresses the use of HTS materials in magnetic bearings in low-loss flywheels. Finally, cryogenic systems are dealt with in Chapter 13 and Chapter 14 shows how to design cryogenic measuring systems and how to take valid measurements.

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