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A Bibliography of Publications of the NIST Electromagnetic Technology Division

Ann G. Bradford, Editor

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Ann G. Bradford, Editor

Electromagnetic Technology Division
Electronics and Electrical Engineering Laboratory
National Institute of Standards and Technology
Boulder, Colorado 80303-3328

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**A Bibliography of Publications of the
NIST Electromagnetic Technology Division**

Ann G. Bradford, Editor

ABSTRACT

This bibliography lists the publications of the staff of the Electromagnetic Technology Division of NIST during the period from January 1970 through July 1998. The bibliography is divided into two general sections: "Cryoelectronic Metrology" and "Superconductor and Magnetic Measurement." Included in the Cryoelectronic Metrology section are citations in the following project areas: Josephson Array Development; Nanoscale Cryoelectronics; High Performance Sensors, Infrared Detectors, and Mixers; and High T_c Electronics. In the Superconductor and Magnetic Measurement section are citations in the following areas: Magnetic Recording Metrology; Magnetic Instruments and Materials Characterization; Nanoprobe Imaging for Magnetic Technology; Superconductor Standards and Technology; and Superconductor Interfaces and Electrical Transport. In each section, the most recent publications are listed first and arranged alphabetically by authors' names.

Key words: cryoelectronics; electromagnetic metrology; X-ray detectors; voltage standards; Josephson junctions; superconductivity; magnetics; magnetic recording; magnetic imaging

A Note on Abbreviations

NOTE: On August 23, 1988, the National Bureau of Standards (NBS) became the National Institute of Standards and Technology (NIST); therefore, documents with either prefix are considered NIST publications.

Most readers are familiar with the commonly used abbreviations for the names of the professional journals that appear in this bibliography. Some publication series are peculiar to NIST and may call for explanation. They are:

NIST IR - NIST Interagency/Internal Report	NBS IR - NBS Interagency/Internal Report
NIST TN - NIST Technical Note	NBS TN - NBS Technical Note
NIST SP - NIST Special Publication	NBS SP - NBS Special Publication
NIST HB - NIST Handbook	NBS HB - NBS Handbook
NIST JRES - NIST Journal of Research	NBS JRES - NBS Journal of Research
NIST MN - NIST Monograph	NBS MN - NBS Monograph

Purchase Procedures and Document Availability

NIST (NBS) Technical Notes, Special Publications, Handbooks, Journals of Research, and Monographs may be purchased from the U.S. Government Printing Office at the following address: New Orders, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Orders may be paid by major credit card, check or money order payable in U.S. dollars to the Superintendent of Documents. The Government Printing Office usually stocks these publications for only a year or two, after which they may be purchased from the National Technical Information Service at the address listed below.

NIST (NBS) Interagency/Internal Reports (NIST IRs, NBS IRs) may be purchased from the National Technical Information Service, Springfield, VA 22161, (703) 487-4650. Orders may be paid by major credit card, NTIS Deposit Account, or check or money order payable in U.S. dollars to NTIS.

Reprints of papers published in non-NIST media may be available in limited quantities from the authors.

Acknowledgments

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