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IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

SPECIAL ISSUE ON

**SPACE AND OTHER APPLICATIONS OF
HIGH TEMPERATURE SUPERCONDUCTING MICROWAVE TECHNOLOGY**

The MTT-S Technical Committee on Microwave Superconductor Applications (MTT-18) is sponsoring a special issue of IEEE Transactions on Microwave Theory and Techniques on "Space and Other Applications of High Temperature Superconducting Technology" to be published in **JULY 1996**. The purpose of the issue is to highlight the effect the High Temperature Superconductivity Space Experiment (HTSSE) has had on the development of HTS microwave technology.

This special issue will contain **invited contributions** from the organizations who provided HTS components and subsystems for the HTSSE-II payload along with overview articles on the history of the HTSSE program and the design, fabrication and testing of the HTSSE-I and HTSSE-II payloads. In addition, **contributions are solicited** in the design, fabrication, testing and packaging of other microwave HTS components, subsystems and systems **which are of interest in space-deployed electronic systems as well as for terrestrial applications**. The areas of interest include, but are not limited to, the following topics:

- band-pass and band-reject filters and multiplexers
- high power handling microwave components
- antennas and antenna feed networks
- high Q-value cavities and resonators
- control components (such as circulators, phase shifters, etc.)
- microwave and millimeter wave mixers, detectors and amplifiers
- cryogenic refrigeration and packaging of HTS microwave devices
- potential system insertion opportunities for HTS microwave technology

Dr. Martin Nisenoff of the Naval Research Laboratory will be Guest Editor of this Special Issue, assisted by Mr. William Meyers as Associate Editor. Prospective authors are requested to submit five copies of the manuscript describing original work in the above areas by **October 15, 1995** to:

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