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**MICROWAVE THEORY AND TECHNIQUES SOCIETY**

June 1985

**SPECIAL TRANSACTIONS ISSUE  
ON  
NEW AND FUTURE APPLICATIONS OF MICROWAVE SYSTEMS**

With the evolution of new technologies in the microwave and related fields, microwave systems applications have increased rapidly over the last decade. Frequency crowding in the traditional microwave bands, S-, C-, X- and Ku-bands, has resulted in extension of applications into the high millimeter wave region. New devices and subsystem fabrication techniques have added to the attractiveness of these new frequency regions. Recent applications of these new technologies have gone beyond the traditional military applications to the civil sector, including private communications, medical electronics and energy transfer. These applications plus the many new and future applications in the traditional fields such as radar, communications and microwave relays, form the basis for a special issue on microwave systems.

The IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, in conjunction with the MTT-16 technical committee on Microwave Systems, is planning to publish a special issue on New and Future Applications of Microwave Systems in October, 1986. Papers are solicited to describe new and original applications of microwave systems. Special emphasis will be on application of unique new and future technologies which apply to microwave, millimeter wave and submillimeter wave systems. This will include related fields such as digital technology and unique applications of processing using microwave techniques. Topics of interest include but are not limited to the following areas:

- o Communications
- o Radar
- o Energy systems
- o Medical applications
- o High density line-of-sight systems
- o Microwave radios
- o Monolithic subsystems with high level of integration
- o Power combining for high power
- o Wideband (GHz and above) synthesizers
- o Unique applications

Authors are requested to submit four (4) copies of their manuscript by March 1, 1986, to the guest editor:

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