

Call for Papers
IEEE Transactions on Microwave Theory and Techniques
Special Issue
on
Directions in Design and Applications of Microwave Systems

Evolutionary developments in design and applications of microwave systems are driven both from internal sources due to technological advances and from external sources as a result of new functional requirements. Advances in semiconductor technologies, particularly in integrated circuit materials and manufacturing techniques, are having a major impact on system architecture and operational capabilities. In the more classic areas of radar and communication systems, the availability of higher device densities has shaped system parameters such as size, performance, operating frequency and cost. These advances have resulted in extended and new system applications. The simultaneous evolution of computing techniques has allowed detailed modeling at the device and system levels, resulting in closely controlled designs, and has opened new horizons in system output information processing for military, commercial, industrial and medical applications. The advent of high temperature superconducting materials promises new challenges.

Papers are solicited for a special issue of the IEEE Transactions on Microwave Theory and Techniques on *Directions in Design and Applications of Microwave Systems*, to be published in May, 1991. The purpose of this special issue is to highlight the diverse areas which interact to provide new directions for microwave and millimeter-wave systems. Relevant topics of interest include, but are not restricted to, the following areas:

- Radar Systems
- Phased and Active Array Systems
- Scanning and Imaging Systems
- Terrestrial and Space Communication Systems
- System Applications of Integrated Circuits, including MMIC Technology
- System Applications of High Temperature Superconductors
- System Applications of Other Emerging Technologies
- Application of CAD Techniques to System Design
- Application of Computing Techniques to Array Output Data Processing
- Influence of Packaging Technology on System Design

Authors are requested to submit four (4) copies of their manuscript by July 15, 1990 to:

George L. Heiter
Guest Editor, MTT Special Issue
AT&T Bell Laboratories, Rm 2A-30
1600 Osgood Street
North Andover, Massachusetts, 01845, USA
Telephone: (508) 960-6031; FAX: (508) 960-6272

Manuscript requirements for submitted papers are outlined on the outside back cover of the IEEE Transactions on Microwave Theory and Techniques.