Call for Papers

Special Issue on **Quasi-Optical Techniques**
IEEE Transactions on Microwave Theory and Techniques
to be published October, 1993

Quasi-optical techniques are playing an increasingly important role in the development of millimeter-wave and submillimeter-wave components and systems. This technology is based upon wave-beam principles and structures having transverse dimensions that range from a few wavelengths to a few hundred wavelengths. A very strong effort has been exercised in developing quasi-optical mixers and detectors in a stand-alone and array format. More recently, a substantial effort has emerged in developing a number of "active" quasi-optical components and systems based upon hybrid and monolithic planar integrated circuit technology. As operating frequencies of ground-based and space-based systems increase, this technology will enjoy escalating importance and will provide an alternative approach for many components.

Papers describing original contributions are solicited for this special issue on subject areas related to quasi-optical techniques. Examples of areas of interest for this special issue include the following:

Gaussian-beam optics
Quasi-optical mixers
Quasi-optical filters and diplexers
Quasi-optical active devices
Spatial power combiners
Quasi-optical oscillators, multipliers, and amplifiers
Beam-steering arrays
Focal-plane arrays
Quasi-optical imaging and phased arrays
Active antennas
Modeling and analysis
Characterization of linear and nonlinear optical structures

Guest editors: Dr. James Mink and Dr. David Rutledge

Four copies of the manuscript should be sent to

Dr. David Rutledge
California Institute of Technology
MS 116-81
Pasadena, CA 91125

by **August 31, 1992**