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MICROWAVE THEORY AND TECHNIQUES SOCIETY

September 1982

THE IEEE
TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES

Will Publish a

Special Issue

on

ELECTROMAGNETIC WAVE INTERACTIONS WITH BIOLOGICAL SYSTEMS

The Issue is Schedule for July 1984

The interaction of electromagnetic waves with biological systems is a complex subject of broad interest to persons in both engineering and biological disciplines. This interest stems from the fact that electromagnetic waves have the ability to either induce harmful effects in unsuspecting biological systems or provide beneficial techniques for diagnosing and treating disease.

It is the purpose of this Special Issue to provide current information on the most recent advances regarding both the manifestations and mechanisms of electromagnetic wave interactions with biological systems. Therefore, high quality manuscripts presenting information not previously published are invited in subject areas such as those below and in related areas not listed.

I. Basic Information

- o Dielectric Properties of Biological Materials
- o Dosimetry
- o Measurement Techniques and Bioinstrumentation
- o Standards for Safe Exposure

II. Biological Effects

- o Exposure Facilities
- o Experimental Designs
- o Pulsed-versus Continuous-Wave Effects
- o Effects on Various Biological Systems

III. Beneficial Applications

- o Electrohyperthermia
- o Microwave Imaging
- o Microwave Radiometry
- o Growth Mediation

For further information contact the guest editor.

James C. Toler
Georgia Institute of Technology
Engineering Experiment Station
Atlanta, Georgia 30332
(404) 894-3964

Paper Deadline - October 12, 1983

All manuscripts should be sent to the guest editor and should arrive by the deadline.