

Call for Papers

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES Special Issue on MEDICAL APPLICATIONS AND BIOLOGICAL EFFECTS OF RF/MICROWAVES

The rapid technological advances in electronics, electro-optics, and computer science that have so profoundly affected our everyday lives have also set the stage for an unprecedented drive toward the improvement of existing medical devices and the development of new ones. In particular, the advances in RF/microwave technology, including wireless communications, MMIC (monolithic microwave integrated circuits), and computation techniques, among others, have paved the way for exciting new therapeutic and diagnostic methods. At the same time, safety concerns regarding the biological effects of electromagnetic radiation have been raised. Frequencies from radio frequency (RF) as low as 400 kHz through microwave frequencies as high as 10 GHz are presently being investigated for therapeutic applications in areas such as cardiology, urology, surgery, ophthalmology, cancer therapy and others, and for diagnostic applications in areas such as cancer detection, organ imaging, and more.

Articles are solicited for a special issue of the IEEE Transactions on Microwave Theory and Techniques on Medical Applications and Biological Effects of RF/Microwaves, to be published in October 1996. Relevant topics of interest include, but are not limited to, the following areas:

- * RF/microwaves in medical therapy
- * Microwave diagnostic techniques
- * Wireless communications in a health care delivery system
- * Biological effects
- * Safety issues

Contributions which directly report on studies in any of these areas are particularly encouraged. Manuscript requirements for submitted articles are outlined on the outside back cover of the IEEE Transactions on Microwave Theory and Techniques. Authors are requested to send four (4) copies of their manuscripts by October 1995 to either one of the guest co-editors:

Arye Rosen
David Sarnoff Research Center
201 Washington Rd., CN 5300
Princeton, NJ 08543, USA

Andre Vander Vorst
Hyperfrequencies, U. C. L.
Batiment Maxwell
B-1348 Louvain-la-Neuve, BELGIUM