

Call for Papers

Special Issue on Microwaves in Medicine, with Accent on the Application of Electromagnetics to Cancer Treatment

With the increased emphasis by technical journals and the news media on reporting the harmful health effects of microwaves, many useful medical applications are not being presented in proper perspective. This is true even though there is a rapidly growing interest in the subject, especially as it relates to cancer treatment.

Therefore, a special issue of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES on "Microwaves in Medicine, with Accent on the Application of Electromagnetics to Cancer Treatment" has been scheduled for publication in July 1978. Papers are solicited which describe original work concerned with the application of microwaves to medicine, especially in the treatment of cancer. Papers may deal with theory or application, and typical topics of interest are as follows:

- 1) Techniques for controlled local and general hyperthermia;
- 2) Applicator designs for producing hyperthermia;

- 3) Measurement of temperature distributions in tissue under microwave exposure;
- 4) Rapid heating of frozen or refrigerated biological media;
- 5) Noninvasive sensing of tissue properties and conditions;
- 6) Microwave thermography;
- 7) Noninvasive transfer of energy or information to implants;
- 8) Medically beneficial effects;
- 9) Effect on tumor cells;
- 10) Effects on bacteria, viruses, and other organisms;
- 11) Effects on blood flow and mass transport;
- 12) Effects on local tissues metabolism.

Authors are requested to submit three copies of the manuscript by July 15, 1977, to:

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