

Abstracts

Localized Hyperthermia with Electromagnetic Arrays and the Leaky-Wave Troughguide Applicator

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Noninvasive microwave hyperthermia is an attractive cancer treatment modality. Understanding the advantages and limitations of focusing are vital for the practical implementations of electromagnetic heating of deep tumors. These, as well as the important issues of tissue coupling and proper choices of polarization and frequency are herein examined. An optimal theoretical source distribution and an applicator design that approximates this distribution are discussed.

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