Abstracts

Design Optimization of Interstitial Antennas for Microwave Hyperthermia

M.F. Iskander and A.M. Tumeh. "Design Optimization of Interstitial Antennas for Microwave Hyperthermia." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 151-153.

Theoretical and experimental results illustrating the design optimization of interstitial antennas for microwave hyperthermia are presented. New numerical models which calculate current distribution and the radiation characteristics of multisection insulated antennas in conductive tissue are developed. Numerical predictions are verified experimentally by making heating patterns measurements and by mapping the various near- and far-field components.

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