

Abstracts

Optimal Source Distribution for Maximum Power Dissipation at the Center of a Lossy Sphere

C.M. Rappaport and F.R. Morgenthaler. "Optimal Source Distribution for Maximum Power Dissipation at the Center of a Lossy Sphere." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. 1 [MWSYM]): 247-250.

The ideal penetration limits for localized, non-invasive heating of tumors at the center of a volume of muscle tissue are determined. Using both an integral formulation and a modal approach, the optimum surface phaae and amplitude source distributions which prevent excessive heating of healthy, intervening tissue are derived.

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