Abstracts

Finite Difference Time Domain Modelling of Hyperthermia Applicators for Cancer Therapy

In this contribution an enhanced version of the Finite Difference Time Domain (FDTD) method is used to calculate the field penetration and Specific Absorption Rate (SAR) pattern for a current sheet applicator used in Hyperthermia treatment. The FDTD method uses modified equations to rigorously model three dimensional dielectric boundaries and a non-uniform grid for computational efficiency. Results obtained using the FDTD method are compared with experimental measurements made on phantoms and excellent agreement is obtained.

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