Abstracts

Numerical Analysis of Printed Strip Dipole Hyperthermia Applicators

S.L. Dvorak and D.J. Aziz. "Numerical Analysis of Printed Strip Dipole Hyperthermia Applicators." 1995 Transactions on Microwave Theory and Techniques 43.7 (Jul. 1995, Part I [T-MTT]): 1502-1507.

The performance of a planar printed strip dipole hyperthermia applicator is simulated using a computer. The applicator is modeled using an exact integral equation formulation, and Galerkin's method is used to obtain the approximate current distribution on the dipole antenna. These currents are then used to compute the input impedance and heating pattern for the applicator. The computer model is used to investigate, and eliminate, the problem of "hot-spots" in the fat layer.

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