

Abstracts

The Near Field of an Insulated Dipole in a Dissipative Dielectric Medium (Short Papers)

J.P. Casey and R. Bansal. "The Near Field of an Insulated Dipole in a Dissipative Dielectric Medium (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.4 (Apr. 1986 [T-MTT]): 459-463.

The near field of uninsulated dipole antenna in a dissipative dielectric medium is important in microwave hyperthermia and geophysical applications. In this paper, the electric field near an insulated dipole has been calculated by the direct numerical evaluation of a surface integral over the insulation. The computed results are compared with those previously obtained by an approximate numerical calculation.

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