

Abstracts

Analysis of the Radiation Leakage for a Four-Aperture Phased-Array Applicator in Hyperthermia Therapy

J.R. Wait. "Analysis of the Radiation Leakage for a Four-Aperture Phased-Array Applicator in Hyperthermia Therapy." 1986 Transactions on Microwave Theory and Techniques 34.5 (May 1986 [T-MTT] (Special Issue on Phased Arrays for Hyperthermia Treatment of Cancer)): 539-541.

We develop a criterion for the justified neglect of the field leaking from the regions between the horn apertures in a phased-array applicator. The condition is $(b/\delta)\psi \ll 1$, where δ is the skin depth of the conductive material, b is the radius of the torso or limb, and ψ is the wedge angle between the horn apertures.

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