

Abstracts

Focusing and Impedance Properties of Conformable Phased Array Antennas for Microwave Hyperthermia

R.M. Najafabadi and A.F. Peterson. "Focusing and Impedance Properties of Conformable Phased Array Antennas for Microwave Hyperthermia." 1996 Transactions on Microwave Theory and Techniques 44.10 (Oct. 1996, Part II [T-MTT] (Special Issue on Medical Application and Biological Effects of RF/Microwaves)): 1799-1802.

Phased array applicators for microwave hyperthermia are usually developed using planar, layered tissue models, and then evaluated using numerical techniques. The present investigation considers the use of a cylindrical, layered tissue model to replace the first step of the design procedure. This model facilitates an evaluation of the impact of curvature, polarization, and bolus materials on the antenna performance.

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