

# Abstracts

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

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*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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