

Abstracts

Modeling of planar applicators for microwave thermotherapy

J. Carlier, V. Thomy, J.-C. Camart, L. Dubois and J. Pribetich. "Modeling of planar applicators for microwave thermotherapy." 2002 Transactions on Microwave Theory and Techniques 50.12 (Dec. 2002 [T-MTT] (Special Issue on 2002 International Microwave Symposium)): 3036-3042.

In order to improve the external applicators used for microwave thermotherapy controlled by microwave radiometry in medical applications, we propose specific planar applicators developed for heating: either annular ones to be used at the frequency equal to 915 MHz or in the shape of a horseshoe (short-circuited ring) for 434 MHz. The final goal of this paper is the realization of a honeycomb network for the treatment of larger areas and greater volumes.

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