

Abstracts

Microstrip Loop Radiators for Medical Applications

I.J. Bahl, S.S. Stuchly, M.A. Stuchly and J.J.W. Lagendijk. "Microstrip Loop Radiators for Medical Applications." 1982 Transactions on Microwave Theory and Techniques 30.7 (Jul. 1982 [T-MTT] (Joint Special Issue on GaAs IC's)): 1090-1093.

Three microstrip loop radiators designed to operate at frequencies of 433, 915, and 1300 MHz are described. Empirical design methods and experimental results obtained with phantoms and human tissues are presented. The radiators are relatively well matched when applied to water boluses followed by muscle phantoms or human tissues. When used with the boluses, the radiators have circular surface-temperature distribution while the in-depth heating patterns are similar to those of the aperture-type radiators.

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