Abstracts

Probing Electromagnetic Fields in Lossy Spheres and Cylinders

G.H. Wong, S.S. Stuchly, A. Kraszewski and M.A. Stuchly. "Probing Electromagnetic Fields in Lossy Spheres and Cylinders." 1984 Transactions on Microwave Theory and Techniques 32.8 (Aug. 1984 [T-MTT] (Special Issue on Electromagnetic-Wave Interactions with Biological Systems)): 824-828.

Distributions of electric fields in lossy spheres and infinite lossy cylinders simulating biological objects were measured at 350, 920 and 2450 MHz. The measurements were performed in a computer-controlled scanning system using three different implantable nonperturbing probes. The results are compared with theory, and use of lossy spheres and cylinders for calibration of implantable probes is quantitatively evaluated.

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