

Abstracts

Microwave Irradiation Design Using Dielectric Lenses (Short Papers)

H.S. Ho, G.J. Hagan and M.R. Foster. "Microwave Irradiation Design Using Dielectric Lenses (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.12 (Dec. 1975 [T-MTT] (1975 Symposium Issue)): 1058-1061.

Theoretical calculations and electric-field measurements were made to investigate the focusing effects of plane-wave-irradiated dielectric spheres (lenses). Spheres of different diameters and dielectric properties and plane wave sources of different frequencies were used in the calculations. The results indicate the feasibility of using dielectric lenses for selective partial-body irradiation in biological experiments.

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