# Abstracts

## Experimental Development of Simulated Biomaterials for Dosimetry Studies of Hazardous Microwave Radiation (Short Papers)

*A.Y. Cheung and D.W. Koopman. "Experimental Development of Simulated Biomaterials for Dosimetry Studies of Hazardous Microwave Radiation (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.10 (Oct. 1976 [T-MTT]): 669-673.*

Simulated biotissues have been developed which are appropriate for dosimetry studies at X-band frequencies and for S-band modeling experiments which would use miniature phantoms at X-band frequencies. A short-circuited waveguide system has been built and tested for the precise measurement of the dielectric properties of the simulated tissue. Modifications of composition for varying the dielectric properties over a wide range have been found. The specific heats of the materials have been measured and are approximately the same as the tissues they represent.

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