Abstracts

Microwave Radiometry for Medical Thermal Imaging: Theory and Experiment

F. Bardati, V.J. Brown, M.P. Ross and P. Tognolatti. "Microwave Radiometry for Medical Thermal Imaging: Theory and Experiment." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1287-1290.

To ascertain the capability of multifrequency microwave radiometry for imaging an inhomogeneous temperature distribution inside a cylindrical region of the human body an equivalent cylindrical phantom has been constructed. Experiments have been performed with the use of a four-channel radiometer. The physical equipment is evaluated by comparison between measured and modeled data. The effectiveness of a modified algorithm for the solution of the inverse problem of temperature retrieval from radiometric data is discussed.

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