

Biological Temperature Retrieval by Scanning Radiometry

F. Bardati, M. Mongiardo, D. Solimini and P. Tognolatti. "Biological Temperature Retrieval by Scanning Radiometry." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 763-766.

This paper refers to the retrieval of two-dimensional thermal fields in biological bodies from multispectral microwave measurements by a scanning waveguide applicator. A formulation of the inverse radiometric problem suitable for a two-step solution (transverse deconvolution and profile retrieval) is outlined. The performance of the inversion procedure is tested by a numerical evaluation of the impulse response of the resulting algorithm.

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