

Abstracts

Present Results and Trends in Microwave Thermography

Y. Leroy, M. Chive, A. Mamouni, M. Hochedez-Robillard and J.C. van de Velde. "Present Results and Trends in Microwave Thermography." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 186-188.

We summarize the data obtained on Microwave Thermography, an application of Radiometry devoted to the reception of thermal noise leading to information about the temperature in living tissues. We describe the processes experimented until now and explain their domain of application in biomedical engineering. Experiments on animals and clinical evaluations are at present being continued. Research is also carried out in the laboratory in order to improve the characteristics of this technique: elaboration of algorithms for thermal Pattern Recognition (or interpretation of the radiometric data), achievement of a multiprobe scanning microwave thermograph, and the study of the possibilities offered by Correlation microwave Thermography.

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