

Abstracts

Microwave Imaging--Complex Permittivity Reconstruction by Simulated Annealing

L. Garner, A. Franchois, J.-P. Hugonin, C. Pichot and N. Joachimowicz. "Microwave Imaging--Complex Permittivity Reconstruction by Simulated Annealing." 1991 Transactions on Microwave Theory and Techniques 39.11 (Nov. 1991 [T-MTT]): 1801-1807.

This paper refers to quantitative reconstruction of the dielectric properties of a strongly inhomogeneous object by means of active microwave imaging. An iterative reconstruction algorithm based on simulated annealing is presented. In some cases, this method seems to be more efficient than iterative deterministic methods and we show that it can converge to an accurate solution when other methods diverge.

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