

# Abstracts

## Microwave Imaging Method Using a Simulated Annealing Approach

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S. Caorsi, G.L. Gagnani, S. Medicina, M. Pastorino and G. Zunino. "Microwave Imaging Method Using a Simulated Annealing Approach." *1991 Microwave and Guided Wave Letters* 1.11 (Nov. 1991 [MGWL]): 331-333.

A new method of microwave imaging in the space domain is presented, which is based on a simulated annealing approach. Markov random fields are used to model the distributions of dielectric features, and a stochastic relaxation algorithm is developed to solve the imaging problem. Computationally heavy inversions of large matrices are avoided. Numerical results confirming the capabilities of the proposed method are reported: they seem better than those obtained by other imaging techniques in space domain.

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