

Abstracts

Microwave tomography. Experimental imaging on two and three dimensional systems

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We have constructed two dimensional and three dimensional microwave tomographic systems. The quantitative experimental image reconstruction has been achieved in the 2D case in both low and high dielectric contrast cases. To reconstruct 3D images we generalized the Born approximation into the vector case. The images of the 3D mathematical models and experimental phantoms have been achieved in case of low contrast of dielectrical properties.

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