Abstracts

Microwave Diffraction Tomography for Biomedical Applications (Further Comments)

J.C. Bolomey, A. Izadnegahdar, L. Jofre, C. Pichot, G. Peronnet and M. Solaimani. "Microwave Diffraction Tomography for Biomedical Applications (Further Comments)." 1984 Transactions on Microwave Theory and Techniques 32.6 (Jun. 1984 [T-MTT]): 648-648.

The comment made by Drs. L. Larsen, T. Guo, and W. Guo is worth noting and requires further explanations. Our reconstruction process is effectively based on a spectral domain approach, but does not involve identity, which is no longer valid inside the object under investigation. Instead, we use the relation existing between the Fourier-Transform of the normalized current distribution and the Fourier-Transform of the scattered field in the plane of measurement. The relevant equations are derived in and a paper has been submitted for publication in the IEEE Transactions on Antennas and Propagation.

❑ Return to main document.