Abstracts

On Microwave Imagery Using Bojarski's Identity (Short Papers)

T.-H. Chu and D.-B. Lin. "On Microwave Imagery Using Bojarski's Identity (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.7 (Jul. 1989 [T-MTT]): 1141-1144.

In this paper, theoretical and experimental studies of microwave imagery of a perfectly conducting convex object of a size larger than the incident wavelength are presented. Experimental data were measured in the frequency range 4-10 GHz. Calculations were done with Bojarski's identity, one-dimensional Fourier inversion of the range-normalized scattered far field, and a back-projection algorithm. The images show the distribution of specular reflection regions on the surface of the object.

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