

Abstracts

Small Resonant Scatterers and Their Use for Field Measurements

R.F. Harrington. "Small Resonant Scatterers and Their Use for Field Measurements." 1962 Transactions on Microwave Theory and Techniques 10.3 (May 1962 [T-MTT]): 165-174.

A general formulation for the back-scattered field from loaded objects is given. It is shown that small resonant objects produce a much greater back-scattered field than small nonresonant ones. The theory is applied to short dipoles and small loops. The use of small resonant scatterers to measure electric and magnetic fields by scattering techniques is discussed. Resonant scatterers are found to have several advantages over nonresonant scatterers when used for field measurements.

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