Abstracts

Electromagnetic Scattering from Heterogeneous MEDIA - A Comparison Between Numerical Computations and Experimental Results

J.P. Parneix, V. Vigneras-Lefebvre, F. Pessan and M.D. du Rau. "Electromagnetic Scattering from Heterogeneous MEDIA - A Comparison Between Numerical Computations and Experimental Results." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1839-1842.

In a view of its possible use for control of absorption, Radar Cross Section (RCS) and shielding, heterogeneous material coatings have received considerable attention recently. An analytical approach to the investigation of the scattering of electromagnetic waves by heterogeneous materials made of spherical inclusions is presented. The theory takes into account the coupling between the inclusion. Computed and experimental results in the range 1 to 100 GHz are given.

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