Abstracts

Low-Frequency Scattering of Dielectric Cylinders

A previously developed method of taking the geometric mean of the upper and the lower bounds as the final answer is applied to the problem of low-frequency scattering of dielectric cylinders. Some of the results obtained agree well with those of Mei and Van Bladel and all results are checked numerically to be reasonable for practical applications. The dipole lines of linear moment p and p' for the two polarizations of the applied field on the rectangular conducting cylinder is believed to be exact; so are those for the equilateral conducting triangular cylinder and for the conducting regular pentagonal cylinder.

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