Abstracts

On the Measured Equation of Invariance for an Electrically Large Cylinder

By considering the electromagnetic scattering of a circular conducting cylinder, the accuracy of the measured equation of invariance (MEI) is examined analytically. Using the asymptotic expansions of the Hankel's functions of second kind, $H_n^2(kp)$ as measuring functions, the case of an electrically large cylinder is studied. It is shown that the MEI coefficients are invariant to the field of excitation.

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