Abstracts

Polynomial Approximations for the Transverse Magnetic Polarizabilities of Some Small Apertures

Polynomial approximations are given for the magnetic polarizabilities of some small apertures of various shapes, as functions of the aperture width to length ratios, for the case where the applied magnetic field is across the narrower dimension of the aperture. The shapes considered are the rectangle, diamond, rounded end slot, and ellipse, of which only the last has an exact solution.

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