

Electromagnetic Scattering From A Perfectly Conducting Stripembedded In A Dielectric Cylinder

Ragheb, H.A. Elsherbeni, A.Z.;Dept. of Electr. Eng., King Fahd Univ. of Pet.Min., Dhahram;

Antennas and Propagation Society International Symposium, 1991. AP-S.

Digest;Publication Date: 24-28 Jun 1991;ISBN: 0-7803-0144-7

King Fahd University of Petroleum & Minerals

<http://www.kfupm.edu.sa>

Summary

Scattering from a perfectly conducting strip arbitrarily embedded inside a dielectric cylinder of circular or elliptical cross-section is investigated. Numerical results are obtained, and their accuracy is investigated for a variety of physical and electric parameters by comparing the scattered field pattern with numerical results obtained using other techniques. It is found that the numerical computations based on this analysis are rapidly convergent and few terms are needed to obtain reasonably accurate results

For pre-prints please write to:abstracts@kfupm.edu.sa