

Abstracts

Field Behaviour Near a Dielectric Edge

J.B. Andersen and V.V. Solodukhov. "Field Behaviour Near a Dielectric Edge." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 198-200.

A review of the theory of field behaviour near a dielectric edge is presented. An overview of the static results is given and it is shown that the series of Meixner for the dynamic case in general is non-existing. Numerical results for scattering by a dielectric cylinder of square-section indicate that the static results give an accurate account for the rate of growth of the fields in the singular cases, but some disagreement in non-singular cases.

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