

# Abstracts

## The Diffraction of Electromagnetic Waves by Dielectric Steps in Waveguides (1970 [MWSYM])

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*E.G. Royer and R. Mittra. "The Diffraction of Electromagnetic Waves by Dielectric Steps in Waveguides (1970 [MWSYM])." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 38-42.*

The electromagnetic scattering from dielectric steps in waveguides is investigated using a new method based upon an extension of the modified residue calculus techniques. The major advantages of the method are its numerical efficiency and accuracy and that these characteristics are sustained at high frequencies as well as high permittivities.

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