

# Abstracts

## Scattering by Periodic Metal Surfaces with Sinusoidal Height Profile - A New Theoretical Approach

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*G. Whitman and F. Schwering. "Scattering by Periodic Metal Surfaces with Sinusoidal Height Profile - A New Theoretical Approach." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 362-364.*

A new theory of scattering by periodic metal surfaces is presented. The approach reduces the scatter problem to solving a linear system whose coefficients are obtained in closed form. The theory is thus amenable to efficient computer evaluation. Numerical results have shown that for depth of grooves less than a wavelength and for unrestricted groove widths reliable and comparable, if not more accurate, data is obtained at minimal computational cost.

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