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The scattering of electromagnetic waves by two opposite staggered perfectly electrically conducting half-planes

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**\*Research Highlights**

V. Daniele, G. Lombardi, R.S. Zich, "The scattering of electromagnetic waves by two opposite staggered perfectly electrically conducting half-planes"

**Research Highlights:**

- Scattering of a plane electromagnetic wave by two opposite staggered perfectly electrically conducting (PEC) half-planes immersed in free space
- Formulation of the problem using the Wiener-Hopf technique in the spectral domain
- Novel and effective factorization procedure of matrix Wiener-Hopf equations based on the reduction to Fredholm integral equations of second kind (Fredholm factorization)
- Factorization of matrices with exponential phase factors
- Network representation of mathematical formulation
- Effective computation of engineering parameters in the field of antenna technologies, electromagnetic compatibility and electromagnetic shielding.

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