

Abstracts

Electromagnetic Coupling between Two Half-Space Regions Separated by Two Slot-Perforated Parallel Conducting Screens

Y. Leviatan. "Electromagnetic Coupling between Two Half-Space Regions Separated by Two Slot-Perforated Parallel Conducting Screens." 1988 Transactions on Microwave Theory and Techniques 36.1 (Jan. 1988 [T-MTT]): 44-52.

The problem of electromagnetic coupling between two half-space regions separated by two slot-perforated parallel conducting planes is investigated. A general moment solution for the problem is obtained. This moment solution is then specialized to the case of narrow slots and to a TE (transverse electric to the slot axis) excitation. Attention is given to the power transmitted from one half-space to the other through the slots and to its functional dependence on various problem parameters involved.

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