Abstracts

On Network Representations of Certain Obstacles in Waveguide Regions

Network representations for a class of obstacles in waveguide regions when the diffraction problem is of a vector type can be obtained by the use of E- and H-type modes. The special properties of these modes are discussed and highlighted by an example involving the network representation of a periodic strip grating in free space for oblique incidence. Transformations relating the different networks based on various modal representations in rectangular coordinate systems are also discussed.

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