

Abstracts

Sets of Eigenvectors for Volumes of Revolution

J.G. Van Bladel. "Sets of Eigenvectors for Volumes of Revolution." 1960 Transactions on Microwave Theory and Techniques 8.3 (May 1960 [T-MTT]): 309-319.

The electric and magnetic eigenvectors of a volume of revolution can be written in terms of two-dimensional scalar and vector functions. These functions are the eigenfunctions of certain linear transformations in the meridian plane. The form of the transformation is examined, and much attention is devoted to the orthogonality properties of their eigenfunctions and the calculation of their eigenvalues from variational principles.

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