

Abstracts

Self-Adjoint Vector Variational Formulation for Lossy Anisotropic Dielectric Waveguide (Comments)

R. Hoffmann. "Self-Adjoint Vector Variational Formulation for Lossy Anisotropic Dielectric Waveguide (Comments)." 1986 Transactions on Microwave Theory and Techniques 34.11 (Nov. 1986 [T-MTT]): 1227-1228.

In the above paper, the authors present a "new variational formula" and its derivation. A careful inspection of the text shows that there are a number of errors and wrong conclusions with the fatal consequence that the final variational formula [1, eq. (37)] is incorrect. The main fallacy of the authors appears to be the derivation of the adjoint solution, and the following discussion will be restricted to this point.

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