Abstracts

Complex Images for Electrostatic Field Computation in Multilayered Media (Comments)

T.J. Cui, C.H. Liang and J. Chen. "Complex Images for Electrostatic Field Computation in Multilayered Media (Comments)." 1994 Transactions on Microwave Theory and Techniques 42.1 (Jan. 1994 [T-MTT]): 165-165.

In a previous paper, Chow et al. have presented an excellent idea for the electrostatic problem, where they introduced the concept of complex image to compute the electrostatic potential function in multilayered media. But there are some defects, listed below, which will affect the values of the method. In the equation (10)² of the paper, the complex images (a/sub i/ and b/sub i/) are dependent upon both the permittivity (K) and the width (h) of the medium, where b/sub i/ has a dimension of length. That is to say, when h varies, a/sub i/ and b/sub i/ are different. Similar defects also appeaxed in (14) and (19).

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