

Abstracts

Edge Elements and the Inclusion Condition

S. Caorsi, P. Fernandes and M. Raffetto. "Edge Elements and the Inclusion Condition." 1995 Microwave and Guided Wave Letters 5.7 (Jul. 1995 [MGWL]): 222-223.

For many years the finite element solution of electro- magnetic eigenproblems has been corrupted by spurious modes. This work proves that the inclusion condition is sufficient but not necessary for the absence of nonzero frequency spurious modes. This is done by showing through a simple example that edge elements, a well known spurious-free technique, do not satisfy the inclusion condition.

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