

Abstracts

On the Accuracy of the Beam-Wave Theory of the Open Resonator (Letters)

A.L. Cullen. "On the Accuracy of the Beam-Wave Theory of the Open Resonator (Letters)." 1976 *Transactions on Microwave Theory and Techniques* 24.8 (Aug. 1976 [T-MTT]): 534-535.

In an interesting paper Erickson has demonstrated how perturbation theory can be used to improve the accuracy of the beam-wave theory of the open resonator. Specifically, two defects of beam-wave theory are considered. The first is that the equiphase surfaces of beam-wave theory are not spherical, the second is that the wave function employed is only an approximate solution to the wave equation.

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