Abstracts

Tapered Waveguide Transitions Between Arbitrary Cross Sections and Sizes

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To analyze waveguide transitions between arbitrary cross sections and sizes the variational method of Galerkin is suitable for calculating local normal modes in intermediate cross sections. Near cutoff sections of spurious modes the solution of the generalized telegraphist's equations in form of Airy functions may be matched to the normal solution away from cutoff. By way of example spurious mode generation is analyzed for various square to round waveguide transitions.

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