

Dispersion characteristics of leaky waves on lossless and lossy slotlines

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This paper deals with the dependence of the type of solution of the determinantal slotline dispersion equation on the location of the poles of its matrix elements. A number of possible solutions above the cut-off frequencies of particular surface waves is determined. Complete dispersion characteristics of the 1st and 2nd leaky wave on the lossless and lossy slotline as well as the main characteristics of the 1st up to the 4th leaky wave on the lossless slotline are presented.

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