Abstracts

Mode Separation and Group Velocity at the n pi-Modes of a Dielectrically Loaded Slow Wave Structure (Correspondence)

D.R. McDiarmid. "Mode Separation and Group Velocity at the n pi-Modes of a Dielectrically Loaded Slow Wave Structure (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.5 (May 1968 [T-MTT]): 318-319.

A new criterion is given for the elimination of a stopband (confluence) of a lossless, dielectrically loaded, periodic structure, which is excited in a TM mode. It is shown that this criterion is also valid when the structure is excited in a TE mode. The nonzero group velocity at the confluence point that results is discussed in terms of the wave impedance.

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