

Abstracts

Effects of Randomization on Periodic Coupling

C.R. Predmore. "Effects of Randomization on Periodic Coupling." 1980 Transactions on Microwave Theory and Techniques 28.7 (Jul. 1980 [T-MTT]): 722-725.

Previous analyses of periodically coupled multimoded systems have assumed equal spacing of the coupling points. In this paper, explicit simple formulas are developed to account for randomized variations of a periodically coupled system. This analysis is useful in multimoded transmission systems utilizing circular waveguides or fiber optics and in active systems such as traveling wave tubes and surface acoustic wave devices.

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