

Abstracts

Tapped-Line Coupled-Transmission-Lines with Applications to Comblines and Interdigital Filters (1975 [MWSYM])

E.G. Cristal. "Tapped-Line Coupled-Transmission-Lines with Applications to Comblines and Interdigital Filters (1975 [MWSYM])." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 110-112.

Exact, general, open-wire-line equivalent circuits for tapped-line combline and interdigital arrays are derived using a combination of graph-transformations and induction. A significant feature of the equivalent circuits is that they do not require commensurate length sections. The equivalent circuit for tapped-line interdigital arrays is utilized to develop new design equations for tapped-line interdigital filters. Computed responses for five and twenty percent bandwidth designs show considerably improved VSWR's compared to designs based on previous procedures.

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