

Characteristics of Log-Periodic Transmission Line Circuits

R.H. DuHamel and M.E. Armstrong. "Characteristics of Log-Periodic Transmission Line Circuits." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 9-12.

The objectives of this and the companion papers following are to introduce and explain new concepts for the design of transmission line circuits which will theoretically provide frequency-independent performance. All of the circuits are constructed according to log-periodic design principles. As with the corresponding log-periodic antennas, these circuits may be designed to give essentially frequency-independent performance over any desired finite bandwidth. Particularly useful circuits to be described are three-port constant phase difference circuits and four-port hybrids.

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