

Abstracts

Extra Broad Band Phase-Shifter Modules

D. Bedoure. "Extra Broad Band Phase-Shifter Modules." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 193-195.

The design theory of diode phase-shifters is well known. This has balanced phase bits connected to the opposite ports of a 3 dB hybrid coupler. The simple equations obtained in this case are no longer valid when strip-line technology is applied to the design of this type of circuit. The complexity of the resulting equations prevents a simple description. The only possibility is the optimization using a simulation programme. The method by which the equations required for this programme are obtained, is given here. Theoretical results and values for the constituent elements of a standard design are also included. Finally theoretical and practical results are shown, representing the optimized design of a phase-shifter operating in the 6 to 18 GHz band.

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