

Feedforward embedding circulator enhancement in transmit/receive applications

S.L. Karode and V.F. Fusco. "Feedforward embedding circulator enhancement in transmit/receive applications." 1998 Microwave and Guided Wave Letters 8.1 (Jan. 1998 [MGWL]): 33-34.

In this work, a feedforward embedding technique is presented to improve the isolation of a circulator. The circuit configuration is particularly suitable for transmit/receive applications where the received signal is extremely weak compared to the transmitted signal and where a mismatch at the antenna may exist. It is demonstrated that the isolation of a circulator can be improved by an additional 30 dB by using a feedforward embedding method. Test performance of a commercial 1-GHz circulator with and without the feedforward network is shown.

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