

Synthesis of amplitude response of optical directional coupler modulators

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Optical directional coupler modulator amplitude response may be synthesized using the Gel'fand-Levitan-Marchenko inverse scattering technique. The technique determines the coupling function required to obtain the specified response, and for this summary we illustrate it with the response function of a third order Butterworth function. The technique provides the possibility of designing coupler modulators with small switching voltages, and better linearity.

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