

Abstracts

The Nonlinear Coherent Coupler

S.M. Jensen. "The Nonlinear Coherent Coupler." 1982 *Transactions on Microwave Theory and Techniques* 30.10 (Oct. 1982 [T-MTT] (Special Issue on Optical Guided Wave Technology)): 1568-1571.

This paper discusses the nonlinear coherent coupler (NLCC), a device useful for optical processing, but not bistable. This device utilizes the coherent interaction of two optical waveguides placed in close proximity. Because of the evanescent field overlap, these waveguides periodically exchange power. Nonlinear interactions modify the exchange of power and lead to strongly nonlinear transmission characteristics.

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