Abstracts

Vector Coupled-Mode Calculation of Guided Vector Modes on an Equilateral Three-Core Optical Fiber

H.S. Huang and H.-C. Chang. "Vector Coupled-Mode Calculation of Guided Vector Modes on an Equilateral Three-Core Optical Fiber." 1991 Microwave and Guided Wave Letters 1.3 (Mar. 1991 [MGWL]): 57-59.

The guided vector modes propagating on an equilateral three-core optical fiber, in which the component cores are identical, single-moded, and arrayed in an equilateral triangle, are determined using the coupled-mode approach. It is shown that in the case of weakly guiding fibers, the polarization patterns of the six vector array modes can be correctly obtained if the vectorial-form coupled-mode theory is applied and the coupling among the six HE/sub 11/ modes of the individual cores is considered.

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