

# All Optical Plasmonic and Photonic Crystal Fiber Couplers

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## Reviews

The most effective book i ever read through. It can be rally fascinating throgh looking at time period. Your lifestyle span will be enhance when you complete looking over this publication. (Maribel Kerluke)

#### ALL OPTICAL PLASMONIC AND PHOTONIC CRYSTAL FIBER COUPLERS



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Modeling and simulation | This book aims to study the propagation and transmission characteristics of a variety of all optical couplers to achieve an efficient all optical coupling, steering, multi-frequency generation and logic gates by aptly modeled coupler geometries. The odyssey of the study begins with a brief introduction to the fundamentals of the nonlinear optics, nonlinear effects, photopolymer fibers, PCF and the analytical tools necessary to explore the system dynamics. Two kinds of nonlinear couplers are considered for the study, namely photopolymer- and photonic crystal fiber- (PCF) coupler. And a special attention is paid towards the coupler made of PCF for its special light guiding properties and design support. The study of photonic crystal fiber coupler (PCFC) involves the modeling of suitable coupler geometry at preferred telecommunication carrier wavelength and followed with the precise determination of the basic optical parameters such as dispersion, nonlinearity, coupling length and confinement loss by employing finite element method (FEM). The theme of the study will primarily focus on steering characteristics for diverse all optical applications. | Format: Paperback | Language/Sprache: english | 148 pp.

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