

Polarization optimization: Various optical components or modules in a transmission link, such as electro-optic (E-O) and electro-absorption (EA) modulators, optical interferometers and heterodyne optical ...

This tutorial reviews recent advances in understanding polarization effects and fiber nonlinearities in coherent optical communication systems. To make the chapter self-contained, at the beginning of the ...

To appease the demand for bandwidth, telecommunication operators are pushed to increase the per-channel data rate of wavelength division multiplexing (WDM) systems. As bit rates increase to meet ...

Another important aspect is that the resulting polarization changes are not only random and unpredictable, but also strongly dependent on the wavelength, the fiber's temperature along its whole ...

In this thesis, we study the impact of phase and polarization on optical communication systems, focusing on analyzing their influence on information capacity and designing DSP techniques.

Here's the first authoritative resource on polarization behavior in optical fibers that gives you the state-of-the-art understanding and techniques needed to mitigate its impact on today's telecommunication ...

Polarization in optical fiber has been extensively studied and a variety of methods are available to either minimize or exploit the phenomenon. In this tutorial, basic principles and technical background are ...

To assess the impact of polarization effects on the optical fiber communication system, it is important to understand the structure of these systems, and how to model and emulate polarization effects in fiber ...

The book also discusses polarization-related parameter measurement and characterization technologies in optical fibers and fiber optic devices and the utilization of polarization ...

This book provides a foundation in polarization optics and the treatment of polarization effects for researchers and engineers who study or work in the field of fiber optic...



Polarization in Fiber Optic Communication Systems

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