

Numerical Simulation of Eccentric Single-Mode Fiber



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A novelty C+L single-mode fiber (CL fiber for short) which can expand L-band communication is proposed to meet the urgent demand of optical fiber transmission bandwidth for large capacity ...



In this paper, a modified model of NCF based on far from cut-off approximation, instead of weakly guided approximation, is proposed to investigate the spectrum characteristic and sensing mechanism of the ...



P.-I. Schneider, N. Srocka, S. Rodt, L. Zschiedrich, S. Reitzenstein and S. Burger, "Numerical optimization of the extraction efficiency of a quantum-dot based single-photon emitter into a single ...



The software RP Fiber Power of RP Photonics can be used for analyzing and optimizing a wide range of passive and active fiber-optic devices.



We have developed an equivalent evaluation model for a bent single-mode fiber and defined the corresponding n_{eq} for each part. The equivalent model is the carrier of the wave ...



Overall, on the basis of simulation results given by COMSOL and Optifiber different parameters for a single mode step index fiber is studied and well analysed. These results give deep insight into the ...



This Paper is about simulating various results of Step Index Single Mode Fiber (SISMF), where the standard parameters are according to that of optical fiber. By varying core diameter and ...



A Single-mode flat fiber investigated by mode matching filtering technique is presented. This class of rectangular optical fiber employed a mode filtering technique to filter high order modes.



We will use the simulation tool optisystem to calculate common performance parameters in a basic fiber optic link. Thus, we will also learn how to characterize a transmission system. Chromatic dispersion ...



The presented preliminary results obtained by numerical modeling represent a good starting point for improving the performance and optimization of single mode fiber optic waveguides.



This article demonstrates how to set up a coupling system and examines the multiple tools available in Sequential Mode for beam and fiber coupling analysis, including Paraxial Gaussian Beam ...

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