Huijue Simulator Fiber Optic Communication

This repository is a Python-based framework to simulate systems, subsystems, and components of fiber optic communication systems, for educational and research purposes.

Simulation Controls Fiber Length (km)Attenuation (dB/km)Noise Level Download Report

Simulate, validate, and optimize real-world fiber networks. Test protocols, topologies, and failures before deployment with advanced emulation platforms.

OptiCommPy is a Python-based framework to simulate systems, subsystems, and components of fiber optic communication systems, for educational and research purposes.

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Whether I need outdoor cabinet products or specialized fiber optical components, they always deliver high-quality solutions that meet my specific needs. In addition to safety, their team is also incredibly ...

A modern, interactive web-based simulator designed to visualize and understand the principles of fiber optic communication. This project helps students and enthusiasts explore how light signals transmit ...

OptiCommPy is freely accessible, providing researchers, students, and engineers with the option to simulate various fiber optical communication systems at the physical layer.

Opticomlib is an open source Python package for optical communications research. It is oriented to engineers who want to simulate optical communication systems using Python.

We describe various transmission scenarios and impairment mitigation techniques, and define a fiber channel deemed to be the most relevant for communication over optically-routed ...

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