



# Planning Fiber Optics Networks

*Bob Chomycz*

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## **Plan and implement fiber optic networks**

Effectively design and deploy bandwidth-rich networks for major types of data traffic. Covering both short-reach and long-haul networks, *Planning Fiber Optic Networks* provides full details on all major fiber optic parameters and includes appropriate background theory and design calculations. You will find guidelines for optimizing SONET/SDH and Ethernet networks, setting up network topologies, minimizing signal loss and impairments, and using dark fiber. Real-world examples are included throughout this practical guide.

- Understand signal propagation in a single-mode fiber
- Plan an optical loss budget
- Maintain an acceptable optical signal-to-noise ratio (OSNR)
- Learn about the effects of chromatic dispersion (CD) and polarization mode dispersion (PMD)
- Expand fiber capacity using wavelength division multiplexing (WDM)
- Reduce fiber nonlinear impairments
- Perform fiber characterization to ensure optimal quality and performance
- Test Ethernet and SONET/SDH networks
- Plan point-to-point and ring fiber topologies
- Lease or purchase dark fiber

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