



Handbook of Fiber Optic Data Communication: Chapter 5. Optical Wavelength-Division Multiplexing for Data Communication Networks

Klaus Grobe

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Wavelength-division multiplexing (WDM) enables multiple communication links to use a common transmission fiber by transmitting a multitude of different wavelengths at the same time. This chapter describes WDM technology, including options such as coarse and dense WDM defined by standards such as ITU-T Recommendations G.652 to G.657. The wavelength spectrum allocation for the L-, C-, S-, E-, and O-bands is discussed. Related technologies, such as time-division multiplexing and erbium-doped fiber amplifiers, are also described in this context. Topics include service mapping using the generic framing procedure and virtual concatenation, technology for optical transceivers and filters, reconfigurable optical add/drop multiplexers, fiber Bragg gratings, and array waveguides. WDM link budgets and noise sources are also discussed, including rings and other topologies, protection schemes, dispersion compensating fiber, equalization, and modulation options including extensions to 100G.

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