DESCRIPTION

In this book, Optical Wavelength Division Multiplexing (WDM) is approached from a strictly practical and application-oriented point of view. Based on the characteristics and constraints of modern fiber-optic components, transport systems and fibers, the text provides relevant rules of thumb and practical hints for technology selection, WDM system and link dimensioning, and also for network-related aspects such as wavelength assignment and resilience mechanisms. Actual 10/40 Gb/s WDM systems are considered, and a preview of the upcoming 100 Gb/s systems and technologies for even higher bit rates is given as well.

Key features:

• Considers WDM from ULH backbone (big picture view) down to PON access (micro view).

• Includes all major telecom and datacom applications.

• Provides the relevant background for state-of-the-art and next-gen systems.

• Offers practical guidelines for system / link engineering.
ABOUT THE AUTHOR

KLAUS GROBE, Dr.-Ing, is Principal Engineer at ADVA Optical Networking SE. He is a member of the German VDE ITG Photonic Networks working group, the IEEE Photonics Society, and the OFC 2010 Subcommittee on Transmission Subsystems and Network Elements.

MICHAEL EISELT, Dr.-Ing, is Director of Advanced Technology at ADVA Optical Networking SE. He was Principal Technical Staff Member at the Lightwave Networks Research Department of AT&T Labs and the Principal Architect at Celion Networks.

SERIES

Wiley Series in Pure and Applied Optics

To purchase this product, please visit https://www.wiley.com/en-us/9780470623022