



Traffic Grooming in  
**Optical**  
WDM Mesh Networks

Keyao Zhu  
Hongyue Zhu  
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OPTICAL NETWORKS SERIES

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# Traffic Traffic Grooming in Optical Wdm Mesh Networks

## Grooming in Optical Wdm Mesh Networks

Keyao Zhu

Optical networks in accordance with wavelength-division multiplexing (WDM) technology provide the promise to fulfill the bandwidth specifications of the Internet infrastructure, and supply a scalable option to aid the bandwidth wishes of destiny functions within the neighborhood and large areas. In a wavelength-routed network, an optical channel, known as a lightpath, is decided up among community nodes for communication. Utilizing WDM technology, an optical fiber hyperlink can help a number of non-overlapping wavelength channels, each one of which might be operated on the information expense of 10 Gbps or forty Gbps today. At the different hand, just a fraction of shoppers are anticipated to have a necessity for this sort of excessive bandwidth. As a result of huge price of the optical spine infrastructure and large WDM channel capacity, connection requests with diversified low-speed bandwidth requisites must be successfully groomed onto high-speed wavelength channels. This booklet investigates the optimized design, provisioning, and function research of traffic-groomable WDM networks, and proposes and evaluates new WDM community architectures. Association of the eBook major volume of analysis attempt has been dedicated to site visitors grooming in SONET/WDM ring networks because the present telecom networks are customarily deployed within the type of ring topologies or interconnected rings. Because the long-haul spine networks are evolving to abnormal mesh topologies, site visitors grooming in optical WDM mesh networks turns into an incredibly vital and sensible study subject for either industry and academia.

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