



Optical Network Design and Planning (Optical Networks)

Jane M. Simmons

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This book takes a pragmatic approach to deploying state-of-the-art optical networking, while also covering recent research results. Algorithms and methodologies related to routing, regeneration, wavelength assignment, sub-rate traffic grooming, and protection are presented, with an emphasis on optical-bypass-enabled (or all-optical) networks. The second edition includes coverage of:

- Dynamic optical networking
- Multi-domain networks
- Flex-grid, gridless, and elastic optical networks
- New physical-layer technology (e.g., coherent detection) and its impact on network design
- ROADM architectures and features, including the colorless, directionless, contentionless and gridless properties
- Algorithms for cloud computing
- Software-Defined Networking
- Energy efficiency

Numerous case studies are presented using three reference networks (the topology files for the networks are provided on a web site, for further studies by the reader). Exercises and suggestions for further research have been added in the second edition, making the book suitable as the primary text for a graduate-level course.

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