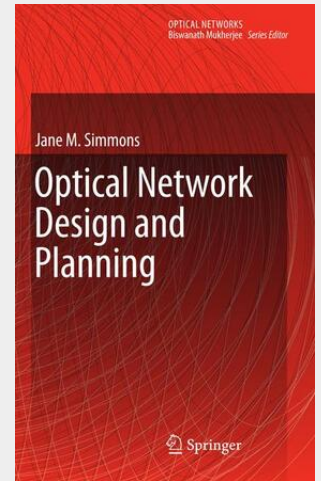


Simmons

Optical Network Design and Planning

Telecommunications carriers have begun to upgrade their networks with state-of-the-art optical equipment, referred to as optical-bypass technology. The ramifications of this technology are manifold, affecting the architecture, operation, and economics of the network, all of which are covered in this book. The book is oriented towards practical implementation in metro and backbone networks, taking advantage of the author's experience with commercial equipment and carrier networks.

Optical Network Design and Planning takes a pragmatic approach to deploying state-of-the-art optical networking equipment in metro-core and backbone networks. The ramifications of this technology are manifold, affecting the architecture, operation, and economics of the network, all of which are covered in the book. The book is oriented towards practical implementation, based on the author's extensive experience with carrier networks and commercial telecommunications equipment. Algorithms and methodologies related to routing, regeneration, wavelength assignment, substrate-traffic grooming, and protection are presented, with an emphasis on optical-bypass-enabled (or all-optical) networks. The focus is on techniques that have been proven to produce efficient results in realistic carrier networks. All of the algorithms presented scale well with network size so that they are suitable for real-time design. While the algorithms and architecture are the core of the content, the various optical network elements are covered as well, including a historical perspective and the implications of equipment evolution. The book has a large emphasis on the economics of optical networking, with a full chapter of economic studies that offer guidelines as to when and how optical-bypass technology should be deployed. The code for some of the routing algorithms is provided, which adds to the utility of the book. Optical Network Design and Planning is for both practitioners and researchers in the field of optical networking. It is also suitable as a supplementary text for graduate students.



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