



Survivable Optical WDM Networks (Optical Networks)

By Canhui (Sam) Ou, Biswanath Mukherjee

Download now

Read Online 

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee

Covers these key topics:

Shared-mesh protection for optical WDM networks.

Survivable traffic grooming for hierarchical optical WDM networks.

Survivable data over next-generation SONET/SDH with inverse multiplexing.

 [Download Survivable Optical WDM Networks \(Optical Networks\) ...pdf](#)

 [Read Online Survivable Optical WDM Networks \(Optical Network\) ...pdf](#)

Survivable Optical WDM Networks (Optical Networks)

By Canhui (Sam) Ou, Biswanath Mukherjee

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee

Covers these key topics:

Shared-mesh protection for optical WDM networks.

Survivable traffic grooming for hierarchical optical WDM networks.

Survivable data over next-generation SONET/SDH with inverse multiplexing.

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee
Bibliography

- Rank: #9691159 in Books
- Published on: 2005-03-10
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .50" w x 6.14" l, 1.04 pounds
- Binding: Hardcover
- 182 pages

 [Download Survivable Optical WDM Networks \(Optical Networks\) ...pdf](#)

 [Read Online Survivable Optical WDM Networks \(Optical Network ...pdf](#)

Editorial Review

From the Back Cover

Survivable Optical WDM Networks investigates different approaches for designing and operating an optical network with the objectives that (1) more connections can be carried by a given network, leading to more revenue, and (2) connections can recover faster in case of failures, leading to better services. Different networks -- wavelength-routed WDM networks, wavelength-routed WDM networks with sub-wavelength granularity grooming, and data over next-generation SONET/SDH over WDM networks -- are covered. Different approaches are proposed to explore every aspect of a protection scheme such as:

(1) Protection granularity

- a. At wavelength granularity
- b. At sub-wavelength granularity

(2) Protection entity

- a. Path protection
- b. Sub-path protection
- c. Segment protection

(3) Routing

- a. Single-path routing
- b. Multi-path routing

Tradeoffs between different objectives, e.g., resource efficiency vs. recovery time, are explored and practical approaches are proposed and analyzed.

Canhui (Sam) Ou received a Ph.D. degree from the University of California, Davis, in 2004. His technical interests include WDM networks, MPLS, optical Ethernet, and FTTx. He is a Principal Member of Technical Staff at SBC Communications, Inc. He worked at Sprint Advanced Technology Laboratories and Fujitsu Laboratories of America as an intern.

Biswanath Mukherjee received a Ph.D. degree from University of Washington, Seattle, in 1987. In 1987, he joined the University of California, Davis, where he has been Professor of computer science since 1995, and served as Chairman of computer science during 1997-2000. He is author of *Optical Communication Networks* book. He is a Member of the Board of Directors of IPLocks, a Silicon Valley startup company. He has consulted for and served on the Technical Advisory Board of a number of startup companies in optical networking. His research interests include lightwave networks, network security, and wireless networks. Dr.

Mukherjee is winner of the 2004 Distinguished Graduate Mentoring Award from UC Davis. He serves or has served on the Editorial Boards of the IEEE/ACM Transactions on Networking, IEEE Network, ACM/Baltzer Wireless Networks (WINET), Photonic Network Communications, and others. He also served as Editor-at-Large for optical networking and communications for the IEEE Communications Society. He served as the Technical Program Chair of the IEEE INFOCOM'96 Conference.

About the Author

Canhui (Sam) Ou received a Ph.D. degree from the University of California, Davis, in 2004. His technical interests include WDM networks, MPLS, optical Ethernet, and FTTx. He is a Principal Member of Technical Staff at SBC Communications, Inc. He worked at Sprint Advanced Technology Laboratories and Fujitsu Laboratories of America as an intern.

Biswanath Mukherjee received a Ph.D. degree from University of Washington, Seattle, in 1987. In 1987, he joined the University of California, Davis, where he has been Professor of computer science since 1995, and served as Chairman of computer science during 1997-2000. He is author of Optical Communication Networks book. He is a Member of the Board of Directors of IPLocks, a Silicon Valley startup company. He has consulted for and served on the Technical Advisory Board of a number of startup companies in optical networking. His research interests include lightwave networks, network security, and wireless networks. Dr. Mukherjee is winner of the 2004 Distinguished Graduate Mentoring Award from UC Davis. He serves or has served on the Editorial Boards of the IEEE/ACM Transactions on Networking, IEEE Network, ACM/Baltzer Wireless Networks (WINET), Photonic Network Communications, and others. He also served as Editor-at-Large for optical networking and communications for the IEEE Communications Society. He served as the Technical Program Chair of the IEEE INFOCOM'96 Conference.

Users Review

From reader reviews:

Paul Hinojosa:

Nowadays reading books become more than want or need but also turn into a life style. This reading practice give you lot of advantages. The advantages you got of course the knowledge the rest of the information inside the book that will improve your knowledge and information. The knowledge you get based on what kind of guide you read, if you want attract knowledge just go with education and learning books but if you want feel happy read one with theme for entertaining including comic or novel. The actual Survivable Optical WDM Networks (Optical Networks) is kind of guide which is giving the reader unforeseen experience.

Bobby House:

Reading a book to become new life style in this season; every people loves to learn a book. When you study a book you can get a lot of benefit. When you read books, you can improve your knowledge, simply because book has a lot of information in it. The information that you will get depend on what types of book that you have read. If you need to get information about your analysis, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, such us novel, comics, along with soon. The

Survivable Optical WDM Networks (Optical Networks) will give you a new experience in looking at a book.

Matthew Sammons:

Don't be worry if you are afraid that this book will filled the space in your house, you may have it in e-book means, more simple and reachable. This specific Survivable Optical WDM Networks (Optical Networks) can give you a lot of friends because by you considering this one book you have factor that they don't and make you actually more like an interesting person. That book can be one of one step for you to get success. This e-book offer you information that possibly your friend doesn't understand, by knowing more than other make you to be great individuals. So , why hesitate? We should have Survivable Optical WDM Networks (Optical Networks).

Bruce Jackson:

As we know that book is important thing to add our information for everything. By a e-book we can know everything we wish. A book is a range of written, printed, illustrated or maybe blank sheet. Every year was exactly added. This reserve Survivable Optical WDM Networks (Optical Networks) was filled about science. Spend your free time to add your knowledge about your technology competence. Some people has various feel when they reading the book. If you know how big advantage of a book, you can experience enjoy to read a publication. In the modern era like today, many ways to get book that you just wanted.

Download and Read Online Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee #AXJ39CIW65Q

Read Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee for online ebook

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee books to read online.

Online Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee ebook PDF download

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee Doc

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee Mobipocket

Survivable Optical WDM Networks (Optical Networks) By Canhui (Sam) Ou, Biswanath Mukherjee EPub