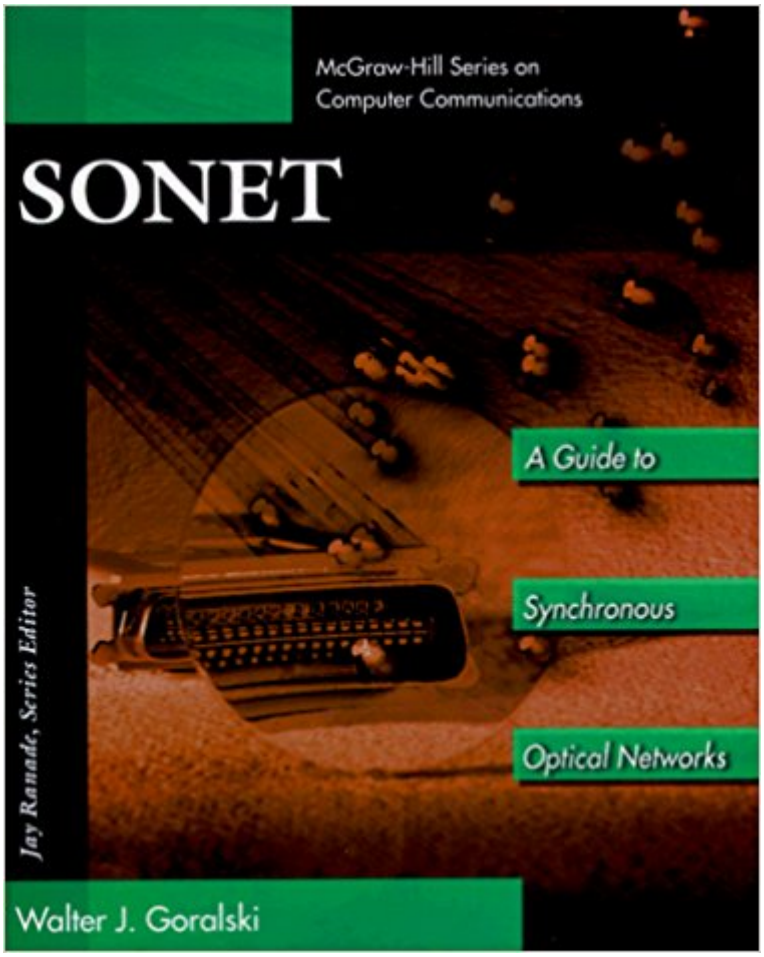
SONET: A Guide To Synchronous Optical Network (McGraw-Hill Computer Communications Series)



Synopsis

This guide offers a balance between technical and practical details for SONET deployment. Worked-out examples and real-world applications from companies such as Bell South and Boeing are used to clarify SONET’s relationship with the full range of fibre optic transmissions. Walter Goralski is the author of "Introduction to ATM" and "APPN/HPR: The Future of SNA".

Book Information

Series: Mcgraw-Hill Series on Computer Communications

Paperback: 432 pages

Publisher: Mcgraw-Hill (Tx) (July 10, 1997)

Language: English

ISBN-10: 0070245630

ISBN-13: 978-0070245631

Product Dimensions: 1.2 x 7.5 x 9.2 inches

Shipping Weight: 2.2 pounds

Average Customer Review: 4.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #1,426,802 in Books (See Top 100 in Books) #51 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Fiber Optics #208 inÃ Â Books > Computers & Technology > Graphics & Design > Computer Modelling > Imaging Systems #317 inÃ Â Books > Textbooks > Engineering > Electrical & Electronic Engineering

Customer Reviews

A unique and practical master guide that will help you achieve greater bandwidth. Speed, increased bandwidth, flexibility, and cost-efficiency: These are just some of the advantages that are making the Synchronous Optical Network or SONET--the international standard for high-speed data transmission via fiber optic cable--a technology in high demand. In a growing family of industries and in a wide variety of uses--from new aircraft to sports stadiums to telephone and cable--SONET is rapidly becoming a technology-of-choice. This is the first truly comprehensive guide to SONET--and the first guide to treat the system as an independent service and technology. Going beyond more byte-level technical details, SONET: A Guide to Synchronous Optical Networks shows you how to work with SONET. You’ll find practical, real-world applications, including techniques for achieving greater bandwidth. Other features include: turotials (a``survivors’ guide’’) containing information on basic fiber optic transmission technology and concepts; explanation of the global digital hierarchly, with SONET applications; discussions of SONET protocol architecture and

operation; illustration of the SONET/ATM link, and how the two technologies work together, plus key concepts behind B-ISDN; international applications: a comparison between SONET and SDH, Europe's Synchronous Digital Hierarchy system (the European standard); a comprehensive listing of currently available SONET equipment, plus vendors which build and supply SONET components. Thoroughly covering every aspect of SONET--including other, complementary technologies necessary to maximize SONET use--this is an indispensable text for network administrators, engineers, and carrier personnel working with end users.

Walter J. Goralski (Elmsford, NY) has been in the telecommunications field for nearly 30 years. He spent 14 years with the Bell System in various technical support and programming positions, followed by eight years at Wang Laboratories, where he specialized in LANs, LAN interconnections, and cable media technologies. Mr. Goralski is an adjunct professor at the Pace University Graduate School of Computer Science and Information Systems, and is a senior member of the Technical Staff at Hill Associates. He is the author of four books on networking, including An Introduction to ATM Networking, six executive reports on telecommunication technology, and numerous articles in these fields.

This book provides a good, readable and thorough introduction to SONET for neophytes as well as moderately experienced readers. A nice balance of technical fact and background/historical information is maintained. The author does an excellent job of explaining SONET frame structures, pointers, overhead usage, etc. In addition, he provides a valuable introduction to the antecedents of SONET (the Bell System T-carrier networks and so on) and provides reasons for many of its architectural and design choices.While the book does have its faults (various errors, too much devoted to non-SONET topics, no details of concatenation beyond STS-3 levels, etc.) and needs some updating to accommodate modern SONET practice, I would recommend this book to anyone with some knowledge of communications who wishes to gain an understanding of SONET and its architecture. (Prospective readers are warned that little information will be found on SDH - the book does remain true to its title in this regard.)

This book is excellent for people both new to and experienced with SONET. It covers history, general and detailed implementation, applications, the future of SONET, and practical factors (such as pressures from competitive companies and technologies, and the slow adoption of some network management standards). It includes details of individual OAM&P overhead signals, internode

communications use of the DCC, rings and failures, delay and timing issues, etc. It has coverage of present SONET implementations by various companies, and future directions for SONET. It covers the issues of concern to me very well, and there is much more in the book to cover your issues also. The book is easy to read and very informative. I frequently refer back to it in my SONET-related work.

This book is recommended for all Sonet and telephony related people. Not only does this book go over Synchronous optical networks, but goes into detail about the differences between SONET and SDH(sychronous digital hierachy) which is used in europe. It also goes over the different vendors equipment and thier good point and bad points giving you a better understanding of Sonet from all angles. ITS A REALLY GOOD BOOK!

The book provides good coverage of the evolution of SONET and the intricacies and "problems" associated with PDH. There’s even good coverage of SDH. However, beware of the sections on SONET rings. They are poorly written, misleading and in some instances downright wrong! Unfortunately, one or two inaccuracies can make one leary about the entire book.

(McGraw-Hill's 500 Questions) McGraw-Hill's National Electrical Code 2017 Handbook, 29th Edition (Mcgraw Hill's National Electrical Code Handbook) McGraw-Hill Education: 10 ACT Practice Tests, Fifth Edition (Mcgraw-Hill's 10 Act Practice Tests) McGraw-Hill Education: Top 50 ACT Math Skills for a Top Score, Second Edition (Mcgraw-Hill Education Top 50 Skills for a Top Score) McGraw-Hill Education 10 ACT Practice Tests, Fourth Edition (Mcgraw-Hill's 10 Act Practice Tests) McGraw-Hill's 500 ACT English and Reading Questions to Know by Test Day (Mcgraw Hill's 500 Questions to Know By Test Day) McGraw-Hill Education: Top 50 ACT English, Reading, and Science Skills for a Top Score, Second Edition (Mcgraw-Hill Education Top 50 Skills for a Top Score) McGraw-Hill Education 5 TEAS Practice Tests, Third Edition (Mcgraw Hill's 5 Teas Practice Tests)