

The book was found

First Mile Access Networks And Enabling Technologies



Synopsis

Learn about the technologies that drive fast broadband access in the first mile and master the design of first mile access networks. Understand the motivating forces behind first mile access networks and learn about the technology and business requirements for first mile access solutions. Master the design of passive optical networks (PON). Build EPON solutions and differentiate them from BPON and GPON. Enhance bandwidth capacity in the access area using CWDM technology. Learn about and design DSL and power-line communication (PLC) networks. Discover the use of WiFi in the first mile and study the subsystems involved in a WiFi solution. Learn the importance of management in first mile access networks and create a business case for diverse first mile access networks. *First Mile Access Networks and Enabling Technologies* provides a platform for showcasing first mile access technologies and associated network solutions. Using this book, you learn about the bandwidth bottleneck within the first mile and explore the resulting business prospects. Benefit from a thorough and thoughtful discussion of the business case for the first mile, which helps you approach the issue from multiple perspectives. Examine multiple access technologies, understand the diversity of solutions within this area, and take your solutions further using sound and unique management techniques. Utilize the solid and tested implementation method provided by this book to remove networking anomalies, such as the digital divide. This book helps you understand and capitalize on the market opportunity presented by the first mile. *First Mile Access Networks and Enabling Technologies* covers multiple technologies, protocols, and business methods and can be used to understand the growth of first mile access networks and resulting business opportunities. This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Book Information

Hardcover: 312 pages

Publisher: Cisco Press (March 5, 2004)

Language: English

ISBN-10: 158705129X

ISBN-13: 978-1587051296

Product Dimensions: 7.5 x 0.9 x 9.4 inches

Shipping Weight: 1.6 pounds

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #4,780,396 in Books (See Top 100 in Books) #70 in Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > WAN #267 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Fiber Optics #835 in Books > Computers & Technology > Certification > Cisco

Customer Reviews

This book provides an interesting in-depth look at first mile access network architectures and technologies. It begins with an introduction to the "Digital Divide" problem and introduces the technologies to be looked at throughout the rest of the text; namely DSL networks (and its derivations), optical fiber networks, cable networks, the public switched telephone network (PSTN), and wireless networks. The author covers passive optical networks first, with a discussion of the various topologies in use, and some of the problems that can be encountered with each one. This chapter introduces some logarithmic math, but don't worry! The book is well written and easily understandable whether you are looking for an overview of the various technologies, or need a good reference book to look up the formula for the signal loss properties of different media. Equations and formulas are sprinkled throughout the book for reference. ATM, broadband, and Ethernet over optical networks are covered with the advantages and disadvantages of each in relation to cost, performance and protocol issues. Chapter 3 continues the theme with a fairly interesting discussion of CWDM and DWDM (course and dense wave division multiplexing, respectively) and their application to access-area networking. The next section of the book introduces wireless data communication networks and discusses time, frequency, and code division multiplexing technologies, the theory behind antenna gain and half power beam-width, and the different types of antennas. WLANs and the 802.11 IEEE standard are looked at, with an in-depth look at the evolution of the 802.11 standard, and specifically the 802.11b high rate wireless LAN standard. This leads nicely into the next chapter where IEEE 802.

[Download to continue reading...](#)

First Mile Access Networks and Enabling Technologies RESTful Web Clients: Enabling Reuse Through Hypermedia The New IT: How Technology Leaders are Enabling Business Strategy in the Digital Age Deep Learning: Natural Language Processing in Python with Recursive Neural Networks: Recursive Neural (Tensor) Networks in Theano (Deep Learning and Natural Language Processing Book 3) Hack a Wifi Network: Easy way to access Wifi Networks by using Linux os My Very First Library: My Very First Book of Colors, My Very First Book of Shapes, My Very First Book of Numbers, My Very First Books of Words The Appalachian Trail Food Planner: Second Edition:

Recipes and Menus for a 2,000-Mile Hike Cruisin' the Fossil Freeway: An Epoch Tale of a Scientist and an Artist on the Ultimate 5,000-Mile Paleo Road Trip Paddling the Everglades Wilderness Waterway: Your All-in-One Guide to Florida's 99-Mile Treasure plus 17 Day and Overnight Trips (Menasha Ridge Press Guide Books) ADC the Map People Raleigh, NC 50 Mile Radius Map: Folded Eddie Red, Undercover: Mystery on Museum Mile Annie's Crochet Mile-A-Minute Menagerie (Annie's Attic) The Emerald Mile: The Epic Story of the Fastest Ride in History Through the Heart of the Grand Canyon Entropy Methods for the Boltzmann Equation: Lectures from a Special Semester at the Centre $\tilde{f}\hat{a}$ mile Borel, Institut H. Poincar $\tilde{f}\hat{A}$ ©, Paris, 2001 (Lecture Notes in Mathematics) The 25,000 Mile Love Story: Youth Edition The Wooden Mile: Something Wickedly Weird, vol. 1 A Walk for Sunshine: A 2,160-Mile Expedition for Charity on the Appalachian Trail Run the World: My 3,500-Mile Journey Through Running Cultures Around the Globe The Last Mile A Mile Wide: Trading a Shallow Religion for a Deeper Faith

[Dmca](#)