Record Nr. UNINA9910830729303321 Autore Green Paul Eliot <1924-> Titolo Fiber to the home [[electronic resource]]: the new empowerment // Paul E. Green, Jr Hoboken, N.J.,: Wiley-Interscience, c2006 Pubbl/distr/stampa **ISBN** 1-280-23575-6 9786610235759 0-470-32576-3 0-471-75564-8 0-471-75563-X 1 online resource (158 p.) Descrizione fisica Collana Wiley survival guides in engineering and science Disciplina 004.6/4 621.3981 Soggetti Optical fiber subscriber loops Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. FIBER TO THE HOME; Contents; Foreword; Preface; CHAPTER 1 The Nota di contenuto Evolution of the Broadband Last Mile; 1.1 Introduction; 1.2 A Few Definitions; 1.3 Cable Competition; 1.4 Triple Play; 1.5 International Competition: 1.6 End-User Pressures: 1.7 Specific End-User Application Needs; 1.8 The Digital Divide; 1.9 Cost Improvements; 1.10 Needs of the Supplier Industries; 1.11 Needs of the Telecomm Service Providers; 1.12 Deficiencies of the Legacy Solutions-DSL, Cable, and Wireless; 1.13 Future-Proof Nature of the Fiber Last Mile; 1.14 Why Bringing Fiber Only to the Curb is Insufficient 1.15 The Wireless ""Alternative""1.16 The Position of the Skeptics; References; Vocabulary Quiz; CHAPTER 2 Architectures and Standards; 2.1 Introduction; 2.2 What Does a PON Look Like?; 2.3 ATM Cells or Ethernet Packets?; 2.4 How the Architectures Will Be Presented in This Book; 2.5 ITU's BPON (Broadband Passive Optical Network) Standard G. 983; 2.5.1 BPON Portrayed as Layers; 2.5.2 BPON Portrayed as Formats; 2.5.3 BPON Portrayed as a Sequence of Events; 2.5.4 Ranging; 2.5.5 Security: 2.5.6 Protection Switching: 2.5.7 Analog Video Delivery over a

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## Sommario/riassunto

A compelling treatment of FTTHWritten by telecommunications pioneer Paul Green Jr., Fiber to the Home is a comprehensive examination of the technical and social implications of fiber to the home (FTTH), the technology that extends the current fiber optic backbone to optically connect it directly to homes and offices. Fiber to the Home addresses the payoffs expected from this impending technological revolution; provides a detailed guide to the optoelectronic components and architectures of which the system is made; and includes an equally thorough guide to the mechanics of deploy