

1. Record Nr.	UNINA9910830868203321
Titolo	Broadband optical access networks and fiber-to-the-home [[electronic resource]] : systems technologies and deployment strategies / / edited by Chinlon Lin
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, c2006
ISBN	1-280-51930-4 9786610519309 0-470-09480-X 0-470-09479-6
Descrizione fisica	1 online resource (336 p.)
Altri autori (Persone)	LinChinlon
Disciplina	004.6/4 004.64 621.3821
Soggetti	Optical fiber subscriber loops Broadband communication systems
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.
Nota di contenuto	Broadband Optical Access Networks and Fiber-to-the-Home; Contents; Foreword; Preface and Overview; Acronyms; Contributors List; 1 Broadband Optical Access Technologies and FTTH Deployment in NTT; 1.1 Introduction; 1.2 History of Optical Technology in Japan; 1.2.1 The First Research on Subscriber Optical Transmission Systems; 1.2.2 From Multi-Mode Fiber to Single-Mode Fiber; 1.2.3 Development of CT/RT System; 1.2.4 Moving Towards FTTH; 1.2.5 Optical Systems at Metal-Wire Costs; 1.2.6 Access Network Optical Upgrading Program; 1.3 Trends in Broadband Services 1.3.1 Growth of Broadband Services in Japan1.3.2 Vision for a New Optical Generation; 1.4 Optical Access Technology Behind Broadband Services; 1.4.1 Optical Access Technology for Current Broadband Services; 1.4.2 Broadband Access Network Technology in the Future; 1.5 Conclusion; References; 2 Today's Broadband Fiber Access Technologies and Deployment Considerations at SBC; 2.1 Introduction; 2.2 Fiber-to-the-Neighborhood (FTTX) Architecture; 2.2.1 FTTH Access

Architecture; 2.2.2 FTTN Access Architecture; 2.3 ITU-T PON Standards; 2.3.1 ITU-T G.983 B-PON Standards Series 2.3.2 ITU-T G.984 G-PON for Higher Speeds 2.3.3 The Role of Standards in Interoperability; 2.4 PON Technology Background; 2.4.1 Upstream Bandwidth Assignment; 2.4.2 Ranging; 2.4.3 Splitters; 2.5 The SBC FTTH Network; 2.5.1 The Optical Fiber/Distribution Network; 2.5.2 FTTH ONTs; 2.5.3 SBC's Mission Bay Trial; 2.6 SBC Fiber to the Node (FTTN) NETWORK; 2.7 The Home Network; 2.8 Motivating the New Network - IPTV; Summary; General References; 3 FTTH: The Swedish Perspective; 3.1 Introduction; 3.2 Contents; 3.3 Definitions; 3.3.1 Broadband Definition; 3.3.2 FTTH Definition 3.3.3 Muni Net Definition 3.3.4 Residential Area Network, Definition; 3.4 Background for the Swedish FTTH Boom; 3.5 The Swedish Broadband Market Today; 3.5.1 Broadband Penetration Compared to the OECD; 3.5.2 The Broadband Market and Access Technologies in Sweden; 3.5.3 Equipment Suppliers; 3.5.4 The Swedish Broadband Industry; 3.5.5 Collaboration Between Industry and Academia; 3.6 Open Networks Versus Vertical Integration; 3.6.1 The Open Network; 3.6.2 Functions When Operating Muni Nets; 3.6.3 Relationships and Monetary Flows in Muni Nets; 3.6.4 Open Networks Versus Vertical Integration 3.7 Access Network Technologies 3.7.1 PON Versus Point-to-Point Ethernet; 3.7.2 L2 Versus L3 Access Architectures; 3.8 Drivers, Services and Trends for the Future Broadband Networks; 3.8.1 Operators and Network Owners; 3.8.2 Authorities; 3.9 Description of Key Swedish FTTH Players; 3.9.1 PacketFront; 3.9.2 Ericsson; 3.9.3 TeliaSonera; 3.9.4 Svenska Bostäder in Vällingby: A Greenfield Deployment; 3.9.5 Stockholm and the Vällingby Model: A Brownfield Deployment; 3.10 Summary; Acknowledgements; References; 4 Broadband Access Networks and Services in Korea 4.1 Changing Environments and FITL Plan

Sommario/riassunto

Broadband Optical Access and Fiber-to-the-Home (FTTH) will provide the ultimate broadband service capabilities. Compared with the currently well-deployed broadband access technologies of ADSL (Asymmetric Digital Subscriber Line) and Cable Modems, optical broadband access with Fiber-to-the-User's home will cater for much higher speed access for new services. Broadband Optical Access Networks and Fiber-to-the-Home presents a comprehensive technical overview of key technologies and deployment strategies for optical broadband access networks and emerging new broadband services.
