

Telecommunications Technology and Applications Series 10

Broadband Access Networks

Introduction strategies and techno-economic evaluation

Edited by L. A. IMS



CHAPMAN & HALL

Broadband Access Networks Telecommunications Technology And Applications Series

Srikanta Patnaik, Vipul Jain



Broadband Access Networks Telecommunications Technology And Applications Series:

Broadband Access Networks Leif Aarthun Ims, 2012-12-06 The access network is expected to be one of the major battlegrounds of telecommunications network operators since upgrades of the existing narrowband access network will be the critical factor in supplying multimedia broadband services in a competitive market The future broadband access network architecture needs to be flexible enough to efficiently support the provision of a full set of broadband and narrowband services with a wide range of capacity demands A wide range of broadband access technologies are available Furthermore the key issues in the upgrading of the very cost sensitive access network are financial as well as technological both for incumbent and new entrant operators Thus in order to identify minimum risk introductory strategies the economic viability of access network broadband upgrades needs to be carefully assessed However despite the definite need for techno economic evaluations very few books have been published in this field One of the reasons might be that broadband access network upgrading only very recently gained wide recognition as a key challenge for broadband delivery Secondly this kind of strategic work and these studies tend to be considered rather sensitive by operators and thus both results and methodologies are not usually readily available Thirdly the work reported in this book in many respects was a major pioneering effort which quite ambitiously aimed at modelling the whole life cycle costs and revenue streams of access network upgrades as opposed to several other efforts which often are limited to pure investment cost comparisons *Optical Access Networks and Advanced Photonics: Technologies and Deployment Strategies* Chochliouros, Ioannis P., Heliotis, George A., 2009-07-31 This book presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand Provided by publisher Optical and Wireless Access Networks Vivek Ashok Bohara, Swaminathan R, 2025-09-26 This textbook comprehensively covers optical and wireless access networks providing an understanding from basics to an advanced level In addition to sharing insights into the topics of optical access communications wireless multiple access communications and optical and wireless convergence towards 6G networks this book also discusses various key enabling technologies such as FSO VLC LiFi power over fiber etc The readers can benefit with sufficient in depth knowledge in designing both optical and wireless access networks for applications such as multiuser access wireless backhaul intelligent transportation systems Internet of Things IoT etc The book is ideal for undergraduate and graduate students in electronics and telecommunication engineering The book features a suite of classroom materials including homework problems an appendix for complicated derivations project ideas a solutions manual and PPT slides and tutorial videos Understanding Telecommunications Networks Andy Valdar, 2006-11-15 This book provides a broad introduction to all aspects of modern telecommunications networks covering the principles of operation of the technology and the way that networks using this technology are structured The main focus is on those technologies in use today and the next generation networks NGN and how they will be implemented **Broadband Access Networks** Leif Aarthun

Ims,2012-10-24 The access network is expected to be one of the major battlegrounds of telecommunications network operators since upgrades of the existing narrowband access network will be the critical factor in supplying multimedia broadband services in a competitive market The future broadband access network architecture needs to be flexible enough to efficiently support the provision of a full set of broadband and narrowband services with a wide range of capacity demands A wide range of broadband access technologies are available Furthermore the key issues in the upgrading of the very cost sensitive access network are financial as well as technological both for incumbent and new entrant operators Thus in order to identify minimum risk introductory strategies the economic viability of access network broadband upgrades needs to be carefully assessed However despite the definite need for techno economic evaluations very few books have been published in this field One of the reasons might be that broadband access network upgrading only very recently gained wide recognition as a key challenge for broadband delivery Secondly this kind of strategic work and these studies tend to be considered rather sensitive by operators and thus both results and methodologies are not usually readily available Thirdly the work reported in this book in many respects was a major pioneering effort which quite ambitiously aimed at modelling the whole life cycle costs and revenue streams of access network upgrades as opposed to several other efforts which often are limited to pure investment cost comparisons

Essentials of Modern Telecommunications Systems Nihal Kularatna,Dileeka Dias,2004

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High Speed Optical Communications Roberto Sabella,Paolo Lugli,2012-12-06 High Speed Optical Communications provides a comprehensive coverage of the design and modelling of the devices and systems required for optical communication networks It will prove to be the essential reference text for those engineers implementing and designing such networks and is one of the few works dealing with modelling and simulation of optical links at the levels both of devices and of systems Simulation experiments and results are included as are details of devices currently under development in research laboratories Covers both the technical details of optical devices and their behaviour in complex systems Includes results of applications experiments Optical and telecommunications scientists working in research and development and design engineers working in the field will find this text to be an indispensable resource

Recent Developments in Intelligent Computing, Communication and Devices Srikanta Patnaik,Vipul Jain,2018-08-22

This book offers a collection of high quality peer reviewed research papers presented at the International Conference on Intelligent Computing Communication and Devices ICCD 2017 discussing all dimensions of intelligent sciences intelligent computing intelligent communication and intelligent devices Intelligent computing addresses areas such

as intelligent and distributed computing intelligent grid and cloud computing internet of things soft computing and engineering applications data mining and knowledge discovery semantic and web technology hybrid systems agent computing bioinformatics and recommendation systems Intelligent communication is concerned with communication and network technologies such as mobile broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies It includes communication hardware software and networked intelligence mobile technologies machine to machine communication networks speech and natural language processing routing techniques and network analytics wireless ad hoc and sensor networks communications and information security signal image and video processing network management and traffic engineering Lastly intelligent devices are any equipment instruments or machines that have their own computing capability As computing technology becomes more advanced and less expensive it can be incorporated an increasing number of devices of all kinds This area covers such as embedded systems radiofrequency identification RFID radiofrequency microelectromechanical system RF MEMS very large scale integration VLSI design and electronic devices analog and mixed signal integrated circuit IC design and testing microelectromechanical system MEMS and microsystems solar cells and photonics nanodevices single electron and spintronics devices space electronics and intelligent robotics

Broadband Communications Paul J. Kühn, Roya Ulrich, 2013-06-29 New Services such as for Internet data and multimedia applications have caused a fast growing demand for broadband communications The fundamental technologies for the integration of these services have been developed in the last decade optical communications photonic switching high speed local area networks Asynchronous Transfer Mode ATM ISDN and B ISDN Internet packet networks and mobile communications The development was possible through the dynamic progress in communication and computer technologies and through worldwide standardization activities within ITU T the ATM Forum the IETF IEEE ANSI ETSI and other bodies These developments have been supported by research and field trial programmes Past developments such as about LAN Internet or ISDN networking technologies have shown that it needs a time span of 10 years for a new technology from its research stage to its full application Broadband Communications is just at its onset for full deployment It will have a dramatic effect not only on the networking situation but on the whole development of information technology throughout our social and economic life which is expressed by the conference theme The Future of Telecommunications The Broadband Communications conference series of IFIP WG 6.2 addresses the fundamental technical and theoretical problems related with these technologies BC 98 is the fourth meeting in a series of conferences being held in Stuttgart Germany The previous conferences were held in Estoril Portugal in 1992 in Paris France in 1994 and in Montreal Canada in 1996

Open Source Software Law Rod Dixon, 2004 This unique and comprehensive resource provides you with a broad introduction to the area of software licensing in the information age The book helps you to understand the basic philosophy and key issues of open source software development and offers expert guidance on how to draft an open source

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