

Stamatios Kartalopoulos

# Next Generation Intelligent Optical Networks

From Access to Backbone



Springer

# Next Generation Intelligent Optical Networks From Access To Backbone

**Panos C. Lekkas**



## **Next Generation Intelligent Optical Networks From Access To Backbone:**

Next Generation Intelligent Optical Networks Stamatios Kartalopoulos, 2007-11-24 Optical networks have been in commercial deployment since the early 1980s as a result of advances in optical photonic and material technologies Although the initial deployment was based on silica fiber with a single wavelength modulated at low data rates it was quickly demonstrated that fiber can deliver much more bandwidth than any other transmission medium twisted pair wire coaxial cable or wireless Since then the optical network evolved to include more exciting technologies gratings optical filters optical multiplexers and optical amplifiers so that today a single fiber can transport an unprecedented aggregate data rate that exceeds Tbps and this is not the upper limit yet Thus the fiber optic network has been the network of choice and it is expected to remain so for many generations to come for both synchronous and asynchronous payloads voice data video interactive video games music text and more In the last few years we have also witnessed an increase in network attacks as a result of store and forward computer based nodes These attacks have many malicious objectives harvest someone else's data impersonate another user cause denial of service destroy files and more As a result a new field in communication is becoming important communication networks and information security In fact the network architect and system designer is currently challenged to include enhanced features such as intruder detection service restoration and countermeasures intruder avoidance and so on In all the next generation optical network is intelligent and able to detect and outsmart malicious intruders      **Next**

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**Ultra-Broad Band Services** Stamatios V. Kartalopoulos, 2011-09-09 This book provides a comprehensive description of an

optical communications technology known as free space optical a next generation communications network that uses optical signals through the atmosphere instead of fiber RF or microwaves This technology potentially offers more complex ultrabandwidth communication services simultaneously to multiple users and in a very short time compared to fiber optic technology This text presents established and new advancements drawn from the latest research and development in components networking operation and practices This book describes the FSO network concepts in simple language It provides comprehensive coverage in an easy to understand progressive style that starts from the physics of the atmosphere and how it affects optical communications continues with the design of a network node and concludes with fiberless network applications from point to point to mesh topology Important areas discussed include Propagation of light in the atmosphere and phenomena that affect light propagation FSO transceiver design Point to point FSO systems Ring FSO systems Mesh FSO systems and integrating the Mesh FSO with the public network WDM Mesh FSO FSO network security FSO specific applications To meet the needs of both academia and industry key mathematical formulas are presented along with descriptions while extensive mathematical analyses are minimized or avoided Free Space Optical Networks for Ultra Broad Band Services serves as an ideal text for network communication professionals who enter the free space optical communication field graduate students majoring in optical communications optical communication engineers researchers managers and consultants Security of Information and Communication Networks Stamatios V. Kartalopoulos, 2009-03-11 2009 CHOICE AWARD OUTSTANDING ACADEMIC TITLE Information and communications security is a hot topic in private industry as well as in government agencies This book provides a complete conceptual treatment of securing information and transporting it over a secure network in a manner that does not require a strong mathematical background It stresses why information security is important what is being done about it how it applies to networks and an overview of its key issues It is written for anyone who needs to understand these important topics at a conceptual rather than a technical level *Gigabit News* , *Next Generation Optical Networks* Peter Tomsu, Christian Schmutzer, 2002 Tomorrow s networks will integrate optical transmission and IP to deliver unprecedented performance and manageability Next Generation Optical Networks gives both electrical and data networking engineers essential information for building these networks It reviews emerging standards such as MPLS and MPLmS key optical technologies and critical applications for enterprise ISP and carrier environments Metro and Access Networks Wanyi Gu, Jianhui Zhou, Jin-Yi Pan, 2001 **ATM Newsletter** , Optical Networking , 2001 *Network Architectures, Management, and Applications II* S. J. Ben Yoo, Society of Photo-optical Instrumentation Engineers, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Network Processors** Panos C. Lekkas, 2003-06-21 Network processing units NPUs will be

the occasion of sweeping changes in the network hardware industry over the next few years This new breed of microchip impacts chip designers like Intel equipment vendors like Cisco application developers like IBM and Motorola and an army of software engineers who spent the last decade working on protocols and network management solutions A thoroughly practical dissection of the early NPU market this designer's guide explains how network processors work and provides detailed information on all major commercial architectures from features to design considerations Comparative tables are a rich source of cross industry info Coverage includes traffic managers classification chips content addressable memories switch fabrics security accelerators storage coprocessors and NetASICs      **Kellogg on Technology & Innovation** Ranjay Gulati, Mohanbir Sawhney, Anthony Paoni, 2003 This volume is a look at innovative new technologies and their business and financial implications from the Kellogg school The editors take a business perspective to examine these technologies and provide not only an overview of the lure and promise of these domains but also turn to providing an account of the business propositions underlying the commercialization of these efforts      **Annual Review of Communications** ,2005

**International Conference on Transparent Optical Networks** ,2001      **Network Architectures, Management, and Applications** ,2005      **Optical Networking** Mehmet Toy, 2001 Optical networking with incredible amounts of bandwidth for relatively low cost is the key technology for satisfying the bandwidth demand required for dramatic growth in internet This selected readings includes a collection of papers describing issues from optical components such as amplifiers to management of optical networks Each chapter consists of tutorial papers providing an overview of the specific area and papers describing the details      *Technology Forecast* ,2001      [Packet Broadband Network Handbook](#) Henry Haojin Wang, 2002 This handbook is a working tool for network engineers who are planning and running them Compares packet technologies methods a capabilities side by side Offers critical insights into architecture transport strategies and access possibilities Numerous learning aids precise exercises references and bibliography      [Next Generation Internet](#) Joel Mambretti, Andrew Schmidt, 1999-09-10 A guide to understanding the emerging technologies and services of the new Internet The groundwork for the next generation Internet NGI is rapidly being laid and now it's only a matter of time before a truly universal fully interactive multimedia Information Superhighway is realized Many organizations are already connecting to powerful new Internet services Enabling the seamless convergence of communications and computation the next version of the Internet will be no mere upgrade it will be based on a communications technology revolution Written by Joel Mambretti and Andrew Schmidt who have been intimately involved with the development of the next generation Internet this book helps you to understand and prepare for the internetworking revolution The authors explain why we need a next generation Internet and discuss the crucial design issues we face from the application technical and network services perspectives They also explore in detail the enabling technologies behind the next generation Internet Writing for both corporate decision makers and the technical community they present Architecture Services and service management Core protocols and

technologies Standards governance and ongoing partnerships Differentiated Services GigaPOPs National and international pilot programs both active and planned International next generation Internet projects Universal accessibility Advanced Internet applications      **Plunkett's E-commerce & Internet Business Almanac** ,2001

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