

Stamatios Kartalopoulos

Next Generation Intelligent Optical Networks

From Access to Backbone

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E Durkheim



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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* ,

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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

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