

# High Performance Backbone Network Technology

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compiling the most influential papers from the ieice transactions in communications high performance backbone network technology examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control telephone service real time video transfer voice and image transmission for a content delivery network cdn and internet access the contributors explore system structures experimental prototypes and field trials that herald the development of new ip networks that offer quality of service qos as well as enhanced security reliability and function offers many hints and guidelines for future research in ip and photonic backbone network technologies

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this volume presents new developments in the framework of high speed networking and computing it focuses on new mechanisms protocols services and architectures derived from the need of emerging distributed multimedia applications and new communication environments

the world of information processing is going through a major phase of its evolution networking has been associated with computers since the 1960 s communicating machines exchanging information or cooperating to solve complex problems were the dream of many scientists and engineers rudimentary networks and protocols were invented local area networks capable of carrying a few megabits per second became basic components of corporate computing installations in the 1980 s at the same time advances in optical transmission and switching technologies made it possible to transfer billions of bits per second the availability of this huge bandwidth is making people wonder about the seemingly unlimited possibilities of these fat information pipes a new world where all interesting up to date information becomes instantaneously available to everyone everywhere is often portrayed to be around the corner new applications are envisioned and their requirements are defined the new field of high performance networking is burgeoning with activities at various levels several frontiers are being explored simultaneously in order to achieve more bandwidth and better performance work is progressing in optical transmission high speed switching and network resource management some researchers have started to investigate all optical networking as a promising approach to remove the relatively slow electronics from the network infrastructure this will also introduce a new environment with unique characteristics that will have a definite impact on network architectures topologies addressing schemes and protocols

including information on the new fast ethernet 100base T standard the new 802.3 fiber standards the use of switching bridges to improve performance through traffic isolation and how to clearly identify proper settings of heartbeat this book answers the myriad of questions that come up after a network is installed

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

details an overall process that provides a logical and structured framework for the subject of transmission performance this work bridges the gap between industry oriented books and academic books it delivers in depth

coverage on transmission performance with a broad industry perspective

this timely volume analyses in detail how the law of defamation will apply to publication of material on the internet defamation i e libel and slander is one of the most difficult issues for internet businesses to handle because material published on the internet is potentially published in every country in the world and each has its own standards of what is defamatory collins takes the study of legal issues raised by the internet to a higher level than previous studies have

hardbound today s computer systems handle more functions for more users and have become very complex as users become increasingly reliant the demand for good performance grows creating a need for better modelling techniques and tools in the performance area in the last few years significant advances and contributions have been made this workshop was a meeting point where researchers and practitioners could voice their concerns and where recent r d issues in both theoretical and practical aspects of systems performance evaluation could be presented the workshop mainly covered modelling and measurement techniques and packages as well as the use of ai tools in this area 100 people from different fields in 12 different countries exchanged news on advances contributions and future trends several modelling techniques were presented in a general way or in order to provide the analysis of specific problems or applications in the field of compute

the emergence of network technologies paves the way for the merging of voice and data over a common infrastructure a feat that promises to usher in serious changes in today s public networks and in the communications industry in general atm for public networks delivers all the comparative data and insights that communications engineers telecommunications leaders and internet service providers need to make critical go no go decisions about atm technology not just for enthusiasts or the presold atm for public networks empowers you to make the most cost quality and time effective technology choices for your network based on an in depth understanding of the tradeoffs and with its full discussions of tcp bandwidth management detailed comparisons of ip over atm vs ip over sonet and voice over ip vs voice over atm this book has plenty to give to those with greater interest in other technologies

computer communications and networking technologies

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