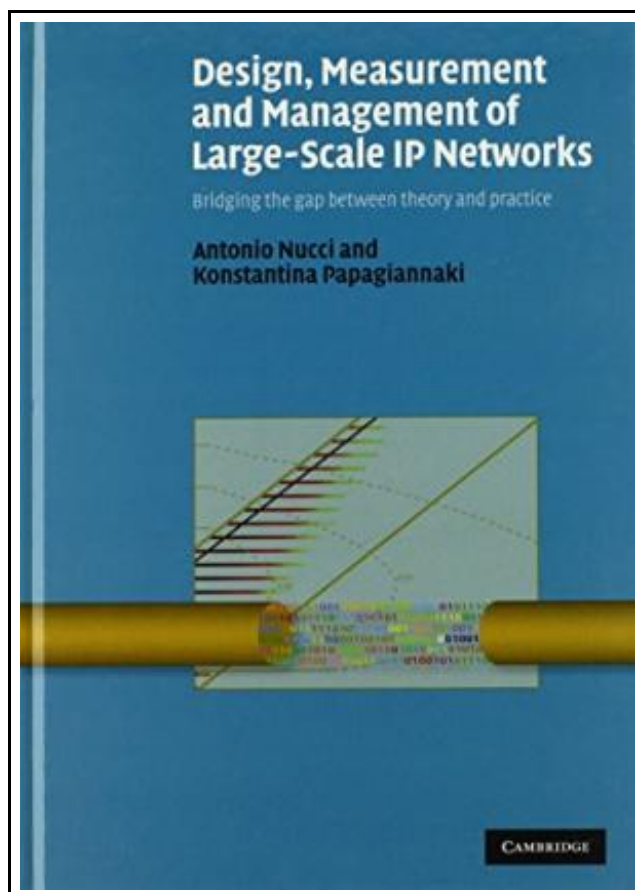# Design, Measurement and Management of Large-Scale IP Networks: Bridging the Gap Between Theory and Practice

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Cambridge University Press, Cambridge, UK, 2008. Hardcover. Book Condition: New. Dust Jacket Condition: New. First Edition. Designing efficient IP networks and maintaining them effectively poses a range of challenges, but in this highly competitive industry it is crucial that these are overcome. Weaving together theory and practice, this text sets out the design and management principles of large-scale IP networks, and the need for these tasks to be underpinned by actual measurements. Discussions of the types of measurements available in IP networks are included, along with the ways in which they can assist both in the design phase as well as in the monitoring and management of IP applications. Other topics covered include IP network design, traffic engineering, network and service management and security. A valuable resource for graduate students and researchers in electrical and computer engineering and computer science, this is also an excellent reference for network designers and operators in the communication industry. Contents 1. Introduction 2. Background and context Part I. Network Monitoring and Management: 3. The need for monitoring in ISP network design and management 4. Understanding through-router delay 5. Traffic matrices: measurement, inference and modeling Part II. Network Design and Traffic Engineering: 6. Principles of network design and traffic engineering 7. Topology design resilient to long-lived failures 8. Achieving topology resilience using multi-parallel links 9. Performance enhancement and resilience to short-lived failures via routing optimization 10. Measuring the shared fate of IGP engineering: considerations and takeaway 11. Capacity planning Part III. From Bits to Services: 12. From bits to services: information is power 13. Traffic classification in the dark 14. Classification of multimedia hybrid flows in real time 15. Detection of data place malware: DoS and computer worms 16. Detection of control place anomalies: beyond prefix hijacking Appendix A. How to link original and measured...

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