Internet QoS: Architectures and Mechanisms for Quality of Service (The Morgan Kaufmann Series in Networking)

By Zheng Wang

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Guaranteeing performance and prioritizing data across the Internet may seem nearly impossible because of an increasing number of variables that can affect and undermine service. But if you're involved in developing and implementing streaming video or voice, or other time-sensitive Internet applications, you understand exactly what's at stake in establishing Quality of Service (QoS) and recognize the benefits it will bring to your company.

What you need is a reliable guide to the latest QoS techniques that addresses the Internet's special challenges. *Internet QoS* is it-the first book to dig deep into the issues that affect your ability to provide performance and prioritization guarantees to your customers and users! This book gives a comprehensive view of key technologies and discusses various analytical techniques to help you get the most out of network resources as you strive to make, and adhere to, meaningful QoS guarantees.

* Includes valuable insights from a Bell Labs engineer with 14 years of experience in data networking and Internet protocol design.
* Details the enhancements to current Internet architectures and discusses new mechanisms and network management capabilities that QoS will require.
* Focuses on the four main areas of Internet QoS: integrated services, differentiated services, MPLS (Multiprotocol Label Switching), and traffic engineering.

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Editorial Review

Review
"What I really like about this book is that it cuts through the vast amount of noise about QoS in the Internet, and pulls out the core ideas (integrated and differentiated services, MPLS, and traffic engineering) in plain and simple technical prose. Internet QoS presents a balanced view of the various technologies and relates them to their practical use. It's up to date, but unlikely to go out of date quickly either, so should prove useful to engineers and students alike."
—Jon Crowcroft, University College London

From the Back Cover
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Features

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- Focuses on the four main areas of Internet QoS: integrated services, differentiated services, MPLS (Multiprotocol Label Switching), and traffic engineering.

About the Author
Dr. Zhendi Wang is a senior research scientist and Head of Oil Spill Research of Environment Canada,

working in the oil and toxic chemical spill research field. His specialties and research interests include: development of oil spill fingerprinting and tracing technology, environmental forensics of oil spill; oil properties, fate and behavior of oil and other hazardous organics in the environment; oil burn emission and products study; oil bioremediation; identification and characterization of oil hydrocarbons; and, spill treatment studies; applications of modern analytical techniques (such as GC, GC/MS, HPLC, LC/MS, SFE and SFC, and IC) to oil spill studies and other environmental science and technology. Dr. Wang has continually and extensively led and been involved in various scientific projects, technology transfer, and national and international cooperative researches with the total funding over 3 million dollars. He has authored over 270 academic publications including 72 peer-reviewed articles and 4 invited reviews in the most respected journals in the environmental science and chemistry, and 8 books and book chapters. The productivity, excellence and achievements of Dr. Wang have established him as a national and international "leading authority on the topic". He has won a number of national and international scientific honours and awards. Wang is also a member of America Chemical Society (ACS), the Canadian Society for Chemistry (CSC), and the International Society of Environmental Forensics.

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