



Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control (Automation and Control Engineering)

Jagannathan Sarangapani

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With modern communication networks continuing to grow in traffic, size, complexity, and variety, control systems are critical to ensure quality and effectively manage network traffic. Providing a thorough and authoritative introduction, *Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control* examines the theory, architectures, and technologies needed to implement quality of service (QoS) in a wide variety of communication networks.

Based on years of research and practical experience, this book examines the technical concepts underlying the design, implementation, research, and invention of both wired and wireless networks. The author builds a strong understanding of general concepts and common principles while also exploring issues that are specific to wired, cellular, wireless ad hoc, and sensor networks. Beginning with an overview of networks and QoS control, he systematically explores timely areas such as Lyapunov analysis, congestion control of high-speed networks, admission control based on hybrid system theory, distributed power control of various network types, link state routing using QoS parameters, and predictive congestion control. The book also provides a framework for implementing QoS control using mote hardware.

Providing a deeply detailed yet conveniently practical guide to QoS implementation, *Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control* is the perfect introduction for anyone new to the field as well as an ideal reference guide for seasoned network practitioners.

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