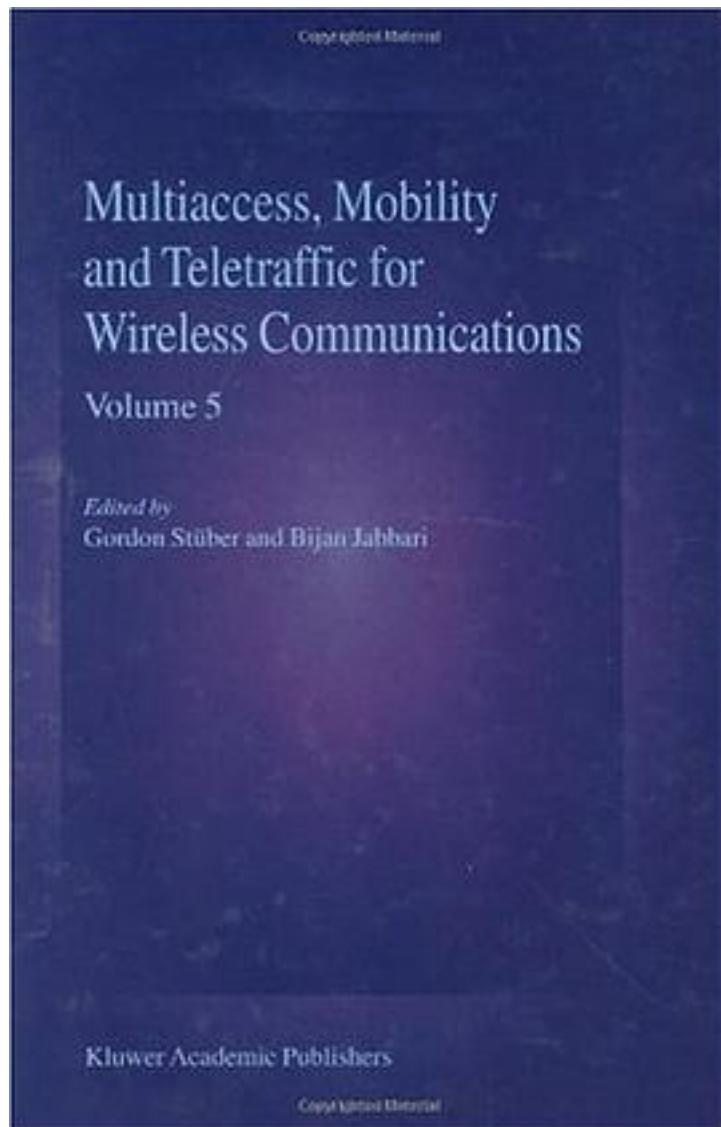


Multiaccess, Mobility and Teletraffic for Wireless Communications, Volume 5



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The convergence of wireless communication and the Internet is one of the strongest emerging markets in the telecommunications industry. This book consists of a compilation of papers on key issues related to 3G and 4G wireless communications and wireless access to next generation Internet (NGI). Included in Multiaccess, Mobility and Teletraffic for Wireless Communications: Volume 5 are new results on space-time access schemes that can dramatically increase the achievable bit rates of wireless systems, perhaps approaching bandwidth efficiencies in the order of 10 bits/s/Hz. The book also considers broadband wireless access to NGI. Effective management of radio resources in wireless systems is necessary for high spectral efficiency and to support mobility. This book treats issues relating to handoff and channel assignment in cellular frequency reuse systems. In order to achieve quality of service (QoS) expectations in a dynamically changing wireless environment, effective error and QoS control protocols are needed. To guarantee fairness in the access to resources, medium access control (MAC) protocols are needed. Optimization of network resources traffic and mobility models are also needed, along with effective call admission control strategies. All of these topics are covered herein. Finally, this book considers future 3G and 4G wireless systems and highlights the critical challenges that must be overcome to make these systems a commercial reality. Multiaccess, Mobility and Teletraffic for Wireless Communications: Volume 5 is an important book for researchers, students and professionals working in the area of wireless communications and mobile computing.

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