

# Vijay Garg Solution Manual Wireless Communication And Networking

Prentice Hall

Multidimensional digital signal processing

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Over the past decade, the world has witnessed an explosion in the development and deployment of new wireless network technologies. From cellular mobile telephony to the ubiquitous “WiFi networks in coffee-shops and airports, to the emerging WiMAX wireless broadband access networks, the menu of wireless access systems has become so comprehensive that wireline access to user devices may soon become a relic of the past. Wireless Networking serves as a one-stop view of cellular, WiFi, and WiMAX networks, as well as the emerging wireless ad hoc and sensor networks. Rather than provide descriptive accounts of these technologies and standards, the book emphasizes conceptual perspectives on the modeling, analysis, design and optimization of such



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industry. In the last two decades, many books have been written on the subject of wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Personal Area Networks (WPAN), Wireless Local Area Networks (WLAN), and Wireless Wide Area Networks (WWAN). The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications. Numerous solved examples have been included to show applications of theoretical concepts. In addition, unsolved problems are given at the end of each chapter for practice. (A solutions manual will be available.) After introducing fundamental concepts, the book focuses on mobile networking aspects. Four chapters are devoted on the discussion of WPAN, WLAN, WWAN, and internetworking between WLAN and WWAN. Remaining seven chapters deal with other aspects of mobile communications such as mobility management, security, cellular network planning, and 4G systems. A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts. Moreover, this book can be used to teach a one/two semester course in mobile



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from industry. The author starts by discussing the economic, regulatory and technical challenges of the existing QoS model. Key coverage includes defining a clear business model for selling and buying QoS in relation to current and future direction of government regulation and QoS interoperability (or lack thereof) between carriers and networking devices. The author then demonstrates how to improve the current QoS model to create a clear selling point, less regulation uncertainty, and higher chance of deployment success. This includes discussion of QoS re-packaging to end-users; economic and regulatory benefits of the re-packaging; and the overall benefits of an improved technical approach. Finally, the author discusses the future evolution of QoS from an Internet philosophy perspective and lets the reader draw the conclusions. This book is the first QoS book to provide in depth coverage on the commercial and regulatory aspects of QoS, in addition to the technical aspect. From that, readers can grasp the commercial and regulatory issues of QoS and their implications on the overall QoS business model. This book is also the first QoS book to provide case studies of real world QoS deployments, contributed by the people who did the actual deployments. From that, readers can grasp the practical issues of QoS in real world. This book is also the first QoS book to cover both wireline QoS and wireless QoS. Readers can grasp the QoS issues in the wireless world. The book was reviewed and endorsed by a long list of prominent industrial and academic figures. Discusses QoS technology in relation to economic and regulatory issues Includes case studies based

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