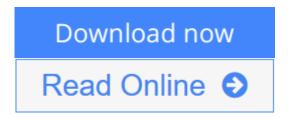# Wireless Networking: Understanding Internetworking Challenges

By Jack L. Burbank, Julia Andrusenko, Jared S. Everett, William T.M. Kasch

Wireless Networking: Understanding Internetworking Challenges By Jack L. Burbank, Julia Andrusenko, Jared S. Everett, William T.M. Kasch

This book focuses on providing a detailed and practical explanation of key existing and emerging wireless networking technologies and trends,while minimizing the amount of theoretical background information. The book also goes beyond simply presenting what the technology is, but also examines why the technology is the way it is, the history of its development, standardization, and deployment. The book also describes how each technology is used, what problems it was designed to solve, what problems it was not designed to solve., how it relates to other technologies in the marketplace, and internetworking challenges faced withing the context of the Internet, as well as providing deployment trends and standardization trends. Finally, this book decomposes evolving wireless technologies to identify key technical and usage trends in order to discuss the likely characteristics of future wireless networks.

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- Sales Rank: #1977344 in eBooks
- Published on: 2013-05-17
- Released on: 2013-05-17
- Format: Kindle eBook

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Editorial Review

From the Back Cover

The definitive, one-stop reference to current and future wireless technologies

With unique emphasis on real-world networking problems and solutions, this book reveals the nuts and bolts of all key wireless technologies, including WiFi, Bluetooth, WiMAX, and LTE, among others. Written by Johns Hopkins University wireless networking instructors, *Wireless Networking: Understanding Internetworking Challenges* explains each technology with a minimum of theory, covering models, usage, specifications, standardization, deployment, performance, and trends.

Readers will learn how each technology is used, what problems it was designed to solve, and how it relates to other technologies in the marketplace, both data and cellular. Historical developments and future directions are also explored, from the evolution of the wireless Internet to key technology trends, such as MIMO, multi-carrier modulation, and network coding. *Wireless Networking:*

- Addresses the wireless standardization process, including standard-setting organizations, from IEEE to the WiFi Alliance
- Examines personal and local area networks, from Bluetooth and Ultra Wideband to WLAN technologies
- Reviews wireless metropolitan area networks, covering fixed WiMAX technology and its transition to cellular
- Discusses 2G, 3G, and 4G cellular communications, from GSM and GPRS to CDMA2000 and LTE-Advanced
- Explains what Mobile Internetworking is about, along with network layer and transport layer considerations

With this outstanding resource at their side, engineers in wireless networking will be able to tackle with confidence internetworking challenges and gain a global networking perspective.

About the Author

JACK L. BURBANK is a Principal Professional Staff in the Communications and Network Technologies group at The Johns Hopkins University Applied Physics Laboratory. He is an Associate Technical Editor of the *IEEE Communications Magazine.*

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