Wireless Networking: Understanding Internetworking Challenges

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

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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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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.*

JULIA ANDRUSENKO is a communications engineer at The Johns Hopkins University Applied Physics Laboratory.

JARED S. EVERETT is an electrical and computer engineer and a member of both the IEEE Communications Society and the IEEE Information Theory Society.

WILLIAM T. M. KASCH is a member of the Senior Professional Staff at The Johns Hopkins University Applied Physics Laboratory. His interests include IEEE/IETF standards and wireless network design.

Users Review

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Martin Adams:

This Wireless Networking: Understanding Internetworking Challenges book is not really ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book is actually information inside this publication incredible fresh, you will get details which is getting deeper you actually read a lot of information you will get. This particular Wireless Networking: Understanding Internetworking Challenges without we understand teach the one who studying it become critical in considering and analyzing. Don't always be worry Wireless Networking: Understanding Internetworking Challenges can bring when you are and not make your tote space or bookshelves' become full because you can have it inside your lovely laptop even telephone. This Wireless Networking: Understanding Internetworking Challenges having excellent arrangement in word and also layout, so you will not really feel uninterested in reading.

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