

Mobile WiMAX: A Systems Approach to Understanding IEEE 802.16m Radio Access Technology

By Sassan Ahmadi

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Presenting the new IEEE 802.16m standard, this is the first book to take a systematic, top-down approach to describing Mobile WiMAX and its next generation, giving detailed algorithmic descriptions together with explanations of the principles behind the operation of individual air-interface protocols and network components.

Features:


- A systematic and detailed, top-down approach to the design of 4G cellular systems based on IEEE 802.16m and 3GPP LTE/LTE-Advanced technologies
- A systematic approach to understanding IEEE 802.16m radio access network and mobile WiMAX network architecture and protocols
- The first comprehensive technical reference on the design, development and performance evaluation of IMT-Advanced systems, including the theoretical background and design principles as well as implementation considerations


About the author:

The author, chief architect and technical lead of the IEEE 802.16m project at Intel Corporation, initiated and masterminded the development of the IEEE 802.16m standard and has been one of the leading technical drivers in its standardization process in IEEE. The author was also a leading technical contributor to the definition and development of requirements and evaluation methodology for the IMT-Advanced systems in ITU-R. Reflecting the author's 20+ years expertise and experience, the book provides an in-depth, systematic and structured technical reference for professional engineers, researchers, and graduate students working in cellular communication systems, radio air-interface technologies, cellular communications protocols, advanced radio access technologies for 4G systems, and broadband cellular standards.

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Editorial Review

About the Author

Dr. Sassan Ahmadi is a senior wireless systems architect and cellular standards expert with over 25 years of experience in signal processing and communication system design as well as cellular systems standards development. He was a leading technical contributor to the definition and development of requirements and evaluation methodology for the IMT-Advanced systems in ITU-R. He was also a technical contributor and leader in the development of the IMT-Advanced standards in ITU-R, IEEE, and 3GPP.

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