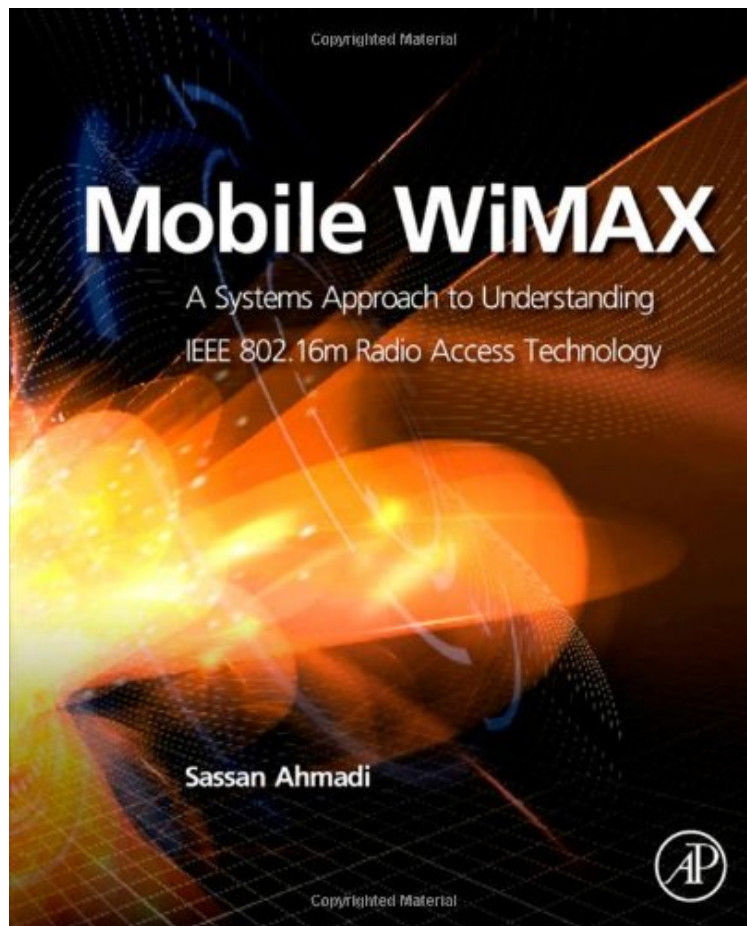


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# Mobile WiMAX: A Systems Approach to Understanding IEEE 802.16m Radio Access Technology

*Sassan Ahmadi*

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**Sassan Ahmadi : Mobile WiMAX: A Systems Approach to Understanding IEEE 802.16m Radio Access Technology** before purchasing it in order to gage whether or not it would be worth my time, and all praised Mobile WiMAX: A Systems Approach to Understanding IEEE 802.16m Radio Access Technology:

1 of 1 people found the following review helpful. For Engineering Libraries Only By Timothy Walker You know you're in trouble when there's 17 pages of acronyms before chapter one. That said, the engineers working to transform the 3G networks of today into the ubiquitous mobile broadband of tomorrow are a hale and hearty lot, unafraid of massive abbreviation-laden tomes. Further, compared to the 2000-page IEEE 802.16-2009 standard itself, this book reads like something out of the Dummies series. As a technical reference, Mobile WiMAX: A Systems Approach to Understanding IEEE 802.16m Radio Access Technology is simply superb; WiMAX is explained by one of its creators

with clarity, exceptional organization, and incredible thoroughness, including all of the necessary facts, figures, and formulas. I had hoped that the book would contain more introductory instructive material but I certainly cannot fault the author for writing for his intended audience and not for lay readership. 0 of 0 people found the following review helpful. Hey Joe, where you goin' with that 802.16m device in your hand? By Bernie (xyzzzy) I was raised on various 802 protocols and find them fascinating. I have to admit most of my practical experience is with the 802.11 realm. However is having always been fascinated but the other standards. Years ago I was working on a GSM system before it became fashionable. My last dabbling was with RFID. So even if I will not be doing anything practical with this book I am still intrigued with the technology and how it is implemented. The book its self presents the information in a text book design. It also works well as a reference book. Very good diagrams and practical explanations. Each chapter has references, some being URLs to different sites that relate to the subject. The only drawback is color. They left off that dimension so you will have to get used to black, white and gray. Still it makes scanning easier. Too bad there are no kits you can buy to apply the information in a tactile way. I assume if there are schools out there using this book that they have some sort of lab. Any way this book can open up a whole new world. Next step is to check out this organization - [wimaxforum.org](http://wimaxforum.org) Don't settle for a black box. Know how the world really works. It can be fun. This book holds nothing back. I like hardback books best; yet making a kindle version was a smart move. 2 of 2 people found the following review helpful. Very detailed book on the subject and more By Luis This is a very good book on the subject. I was looking for a WiMAX reference book and this book definitely does that job. It is at times a little verbose and provides more details about how standard bodies operate than I care for but the material is good. It starts providing some background on and requirements for a 4G mobile broadband wireless access system, going then to the reference model and the interfaces for WiMAX, going then into detail about each interface. Finally, it goes into detail on the physical and MAC layers, including the security sublayer. I am not a physical layer person but i'm interested in the MAC layer and general system overview. The author does a great job explaining and providing details (sequence diagrams, tables, etc.). Overall, I would recommend this book to anyone working on this type of networks.

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 authors 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. 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 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.