Mobile Communication Systems and Security
Man Young Rhee

DESCRIPTION

Mobile Communication Systems and Security arms readers with a thorough understanding of all major cellular air-interface technologies and their security layer techniques. Rhee covers the technological development of wireless mobile communications in compliance with each iterative generation up to 3G systems and beyond, with an emphasis on wireless security aspects. By progressing in a systematic manner, presenting the theory and practice of wireless mobile technologies along with various security problems, readers will gain an intimate sense of how mobile systems operate and how to address complex security issues.

• Written by a top expert in information security
• Details each generation of cellular technology
• Gives a clear understanding of wireless security protocol analysis
• Offers complete coverage of various protocols and specifications in 3GPPs
• Forecasts new features and promising technologies
• Presents numerical examples in each chapter for easier understanding
• Provides source code that can be used for individual practice
The book is ideal for advanced undergraduate and postgraduate students enrolled in courses such as Wireless Networking, Wireless Security, or Mobile Radio Communications. Practicing engineers in industry and research scientists can use the book as a reference to get reacquainted with mobile radio fundamentals or to gain deeper understanding of the security layer.

Access the source code and lecture materials at the companion website: (www.wiley.com/go/rhee)

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**ABOUT THE AUTHOR**

**ManYoung Rhee** is an Endowed Chair Professor at Kyung Hee University and has over 45 years of research and teaching experience in the field of communication technologies, coding theory, cryptography, and information security. His career in academia includes professorships at Hanyang University (he also held the position of Vice President at this university), Virginia Tech, Seoul National University, and the University of Tokyo. Dr Rhee has held a number of high level positions in both government and corporate sectors: President of Samsung Semiconductor Communications; President of Korea Telecommunications Company; Chairman of the Korea Information Security Agency at the Ministry of Information and Communication; President of the Korea Institute of Information Security and Cryptology; and Vice President of the Agency for Defense Development at the Ministry of National Defense. He is a Member of the National Academy of Sciences, Senior Fellow at the Korea Academy of Science and Technology, and an Honorary Member of the National Academy of Engineering of Korea. His awards include the “Dongbaek” Order of National Service Merit and the “Mugunghwa” Order of National Service Merit, the highest grade honor for a scientist in Korea, NAS Prize, the National Academy of Sciences, NAEK Grand Prize, the National Academy of Engineering of Korea, and Information Security Grand Prize, KIISC. He has also published the following four books: *Coding, Cryptography, and Mobile Communications: Internet Security*, John Wiley, 2003; *CDMA Cellular Mobile Communications and Network Security*, Prentice Hall, 1998; *Cryptography and Secure Communications*, McGraw-Hill, 1994; and *Error Correcting Coding Theory*, McGraw-Hill, 1989. Dr Rhee has a B.S. in Electrical Engineering from Seoul National University, and an M.S. in Electrical Engineering and a Ph.D. from the University of Colorado.

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