



# Introduction to Wireless and Mobile Systems

*By Dharma P. Agrawal, Qing-An Zeng*

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This is the first Wireless and Mobile Systems text written for Computer Science and Engineering students (as opposed to Electrical Engineering graduate students). The authors explain the general principles of how wireless systems work, how mobility is supported, what is the underlying infrastructure and what interactions are needed among different functional components. Appropriate for undergraduate or graduate courses, the chapter topics focus on qualitative descriptions and the realistic explanations of relationships between wireless systems and performance parameters. Rather than offering a thorough history behind the development of wireless technologies or an exhaustive list of work being carried out, the authors help EE and CSE students learn about this exciting technology and understand how a cell phone starts working as soon as they get out of an airplane.

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"This book will become a classic in the area."

"Covers a wide variety of important topics in a simple way so that the students can understand the concepts."

"The book is written lucidly and concepts are clearly explained. I enjoyed reading it."

"Overall, the presentation in all chapters is excellent. I find the book contents truly outstanding."

### **About the Author**

Dr. Dharma P. Agrawal is the Ohio Board of Regents Distinguished Professor of Computer Science and Engineering and the founding director for the Center for Distributed and Mobile Computing in the Department of ECECS, University of Cincinnati, Ohio. His current research interests include energy efficient routing, information retrieval, and secured communication in ad hoc and sensor networks, effective handoff handling and multicasting in integrated wireless networks, interference analysis in piconets and routing in scatternet, and use of smart directional antennas for enhanced QoS. He has served as an editor of the IEEE Computer Magazine and the IEEE Transactions on Computers. He has received numerous certificates and awards from the IEEE Computer Society, including a "Third Millennium Medal" for outstanding contributions. He is a Fellow of the IEEE, ACM, AAAS and WIF.

Qing-An Zeng is a faculty member in the Department of Computer Systems Technology at North Carolina A&T State University. He has authored over one hundred publications including books, book chapters, refereed journal papers, and conference papers in the areas of Wireless and Mobile Networks, Handoff, Resource Management, Mobility Management, Heterogeneous Networks, Ad Hoc and Sensor Networks, Wireless Internet, Quality of Service (QoS), Security, Ultra-wideband (UWB), Network on Chip (NoC), Power Line Communication (PLC), Vehicle Communications, Smart Grid, Big Data Analysis, Social Networks, System Modeling and Performance Analysis, and Queuing Theory. Dr. Zeng is a senior member of IEEE.

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