

**Miao, Guowang and Zander, Jens. and Sung, Ki Won and Slimane, Slimane Ben. *Fundamentals of Mobile Data Networks*. Cambridge CB2 8BS, United Kingdom: Cambridge University Press, 2016, 304 pp. \$110.00 (Hardbound).**

This unique text provides a comprehensive and systematic introduction to the theory and practice of mobile data networks.

Covering basic design principles as well as analytical tools for network performance evaluation, and with a focus on system-level resource management, you will learn how state-of-the-art network design can enable you flexibly and efficiently to manage and trade off various resources such as spectrum, energy, and infrastructure investments.

Topics covered range from traditional elements such as medium access, cell deployment, capacity, handover, and interference management, to more recent cutting-edge topics such as heterogeneous networks, energy- and cost-efficient network design, and detailed introduction to 4G Long Term Evolution (LTE).

Numerous worked examples and exercise illustrate the key theoretical concepts and help you put your knowledge into practice,, making this an essential resource whether you are a student, researcher, or practicing engineer.

**Guowang Miao** is an Associate Professor at KTH Royal Institute of Technology. After receiving his PhD from Georgia Institute of Technology, he spent two years working in industry as a Senior Standard Engineer and 3GPP delegate at Samsung Telecom America in Dallas and was awarded an individual Gold Award.

**Jens Zander** is a full Professor, and co-founder and Scientific Director of Wireless@KTH, at KTH Royal Institute of Technology. He is on the board of directors of the Swedish National Post and Telecom Agency (PTS) and a member of the Royal Academy of Engineering Sciences.

**Ki Won Sung** is a Docent in the Communications Systems Department at KTH Royal Institute of Technology. He is also affiliated with KTH Center for Wireless Systems (Wireless@KTH).

**Slimane Ben Slimane** is an Associate Professor in the Communication Systems Department at KTH Royal Institute of Technology, having previously been an Assistant Professor in the Department of Signals, Sensors, and Systems.