



# Wireless Networks

By Clint Smith, Daniel Collins

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**Wireless Networks** By Clint Smith, Daniel Collins

## Design Next-Generation Wireless Networks Using the Latest Technologies

Fully updated throughout to address current and emerging technologies, standards, and protocols, *Wireless Networks*, Third Edition, explains wireless system design, high-speed voice and data transmission, internetworking protocols, and 4G convergence.

New chapters cover LTE, WiMAX, WiFi, and backhaul. You'll learn how to successfully integrate LTE, WiMAX, UMTS, HSPA, CDMA2000/EVDO, and TD-SCDMA into existing cellular/PCS networks. Configure, manage, and optimize high-performance wireless networks with help from this thoroughly revised, practical guide.

### Comprehensive coverage includes:

- Overview of 3G wireless systems
- UMTS (WCDMA) and HSPA
- CDMA2000 and EVDO
- TD-SCDMA and TD-CDMA
- LTE
- WiMAX
- VoIP
- WiFi
- Broadband system RF design considerations
- Network design considerations
- Backhaul
- Antenna system selection, including MIMO
- System design for UMTS, CDMA2000 with EVDO, TD-SCDMA, TD-CDMA, LTE, and WiMAX
- Communication sites including in-building and colocation guidelines
- 5G and beyond

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### **Wireless Networks By Clint Smith, Daniel Collins Bibliography**

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## Editorial Review

### About the Author

**Clint Smith, P.E.**, is currently the CTO for Rivada Networks and has extensive experience in all aspects of fixed and mobile wireless telecommunications, including senior management, system design, project management, budgeting, implementation, operations, and sales. He is the author of several books published by McGraw-Hill Education, including *Wireless Network Performance Handbook*, *3G Wireless Networks*, and *Wireless Telecommunications FAQs*. Mr. Smith has been awarded numerous patents related to wireless mobility and public safety. He also has specific design and operational experience with LTE, CDMA/1xRTT/EVDO, GSM/GPRS/EDGE, WCDMA/HSPA, TDMA, iDEN, AMPS, LMDS, WiMAX, WiFi, Microwave PtP, and public safety communications systems.

**Daniel Collins**, a 20-year veteran of the wireless communications industry, is currently Chief Technology Officer?Wireless at Jasper Wireless, Inc. He began his career at Ericsson, where he worked in product development and product management roles and helped develop some of the world's earliest GSM networks. Mr. Collins also served as an independent consultant for many years on 2.5G, 3G, and IP technologies to tier-one service providers around the world, and worked with Alcatel North America as Vice President of Fixed Mobile Convergence. He is the co-author of *Carrier-Grade VoIP*, published by McGraw-Hill Education.

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