Femtocells: Design & Application (Electronics)

By Joseph Boccuzzi, Michael Ruggiero

Femtocells: Design & Application (Electronics) By Joseph Boccuzzi, Michael Ruggiero

Cutting-edge femtocell design and implementation techniques

This in-depth resource provides comprehensive coverage of femtocells and how they integrate with existing 3G and emerging wireless protocols and standards. *Femtocells: Design & Application* provides a technical roadmap for migrating to femtocell technology, covering network architecture, media protocols, system performance, and security issues. Detailed architectural diagrams illustrate various deployment options. This is a practical guide to the pioneering technology that enables extended indoor service coverage.

Femtocells: Design & Application covers:

- The impact on handset design with respect to cost, size, and power consumption
- Cellular candidate radio access technologies that aid in femtocell deployment, including 3GPP LTE
- System analysis, including indoor path loss models and 3GPP RF requirements
- Femtocell network architecture and analysis
- Registrations, call establishment, call release, and handoff scenarios
- VoIP and Session Initiation Protocol (SIP)
- Media protocols over IP
- Security vulnerabilities and solutions
- Managing Quality of Service in IP-based networks offering multimedia solutions
- 3GPP IP Multimedia Subsystem (IMS) network architecture

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Editorial Review

About the Author

Joseph Boccuzzi, Ph.D., has more than 20 years of design experience with companies such as Eaton Corp., Motorola, AT&T Bell Labs, and Cadence Design Systems. He has taught wireless communications & signal processing courses at Polytechnic University and Besser Associates. Dr Boccuzzi is a principal scientist with Broadcom Corp. designing 3G and 4G wireless cellular communication systems. He is the author of *Signal Processing for Wireless Communications*.

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