



## Cellular Networks: Design and Operation: A Real World Perspective

*Paul Bedell*

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# **Cellular Networks: Design and Operation: A Real World Perspective**

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Gain a complete understanding of everything that makes a cellular network run!

Get comprehensive insight on the inner workings of modern cellular networks. Most books on cellular technology focus on singular topics. Cellular Networks: Design and Operation focuses on all elements of cellular networks, everything from cellular network design, to towers, to the basics of LTE (4G). Cellular Networks: Design and Operation uses minimal jargon to provide straightforward explanations of all facets of cellular networks. Learn the fundamentals of all network elements and technologies that are required to run cellular networks. Topics covered in this book include:

- Cellular radio development
- The cell base station
- Basic cellular network design and operation
- Radio Frequency (RF) operation and technologies
- Antennas, RF power and sectorization
- Distributed Antenna Systems (DAS)
- Base station elements and RF signal flow
- 2G and 3G digital wireless technologies
- Microwave radio systems
- 4G and Long Term Evolution (LTE)
- The backhaul network
- The MTSO and core network
- Personal Communication Services (PCS) and the current marketplace
- Towers
- Capacity management and propagation models
- Interconnection to the landline public switched telephone network (PSTN)
- Roaming and intercarrier networking
- Mobile data technologies
- The business side of wireless
- Mobile applications

Examples, photos and illustrations from the field are included in this practical guide.



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