



Advanced Cellular Network Planning and Optimisation: 2G/2.5G/3G...Evolution to 4G

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Advanced Cellular Network Planning and Optimisation: 2G/2.5G/3G...Evolution to 4G From Wiley

A highly practical guide rooted in theory to include the necessary background for taking the reader through the planning, implementation and management stages for each type of cellular network.

Present day cellular networks are a mixture of the technologies like GSM, EGPRS and WCDMA. They even contain features of the technologies that will lead us to the fourth generation networks. Designing and optimising these complex networks requires much deeper understanding. *Advanced Cellular Network Planning and Optimisation* presents radio, transmission and core network planning and optimisation aspects for GSM, EGPRS and WCDMA networks with focus on practical aspects of the field. Experts from each of the domains have brought their experiences under one book making it an essential read for design practitioners, experts, scientists and students working in the cellular industry.

Key Highlights

- Focus on radio, transmission and core network planning and optimisation
- Covers GSM, EGPRS, WCDMA network planning & optimisation
- Gives an introduction to the networks/technologies beyond WCDMA, and explores its current status and future potential
- Examines the full range of potential scenarios and problems faced by those who design cellular networks and provides advice and solutions all backed up with real-world examples

This text will serve as a handbook to anyone engaged in the design, deployment, performance and business of Cellular Networks.

"Efficient planning and optimization of mobile networks are key to guarantee superior quality of service and user experience. They also form the essential foundation for the success of future technology development, making this book a valuable read on the road towards 4G."

—Tero Ojanperä, Chief Technology Officer, Nokia Networks

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About the Author

Ajay Ranjan Mishra received his M. Tech in Microwave Electronics from University of Delhi in 1997. Since then, he has been working with Nokia Networks. He has been involved not only in the research and development of network designing and optimization for all three generations of the networks, but also in the deployment of these networks globally. His current interests are issues related to the design and performance of third, fourth and mixed cellular networks. He has several publications to his credit, including most recently "Fundamentals of Network Planning and Optimization for Wireless Communications: 2G, 3G and systems beyond" by Wiley (2003).

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