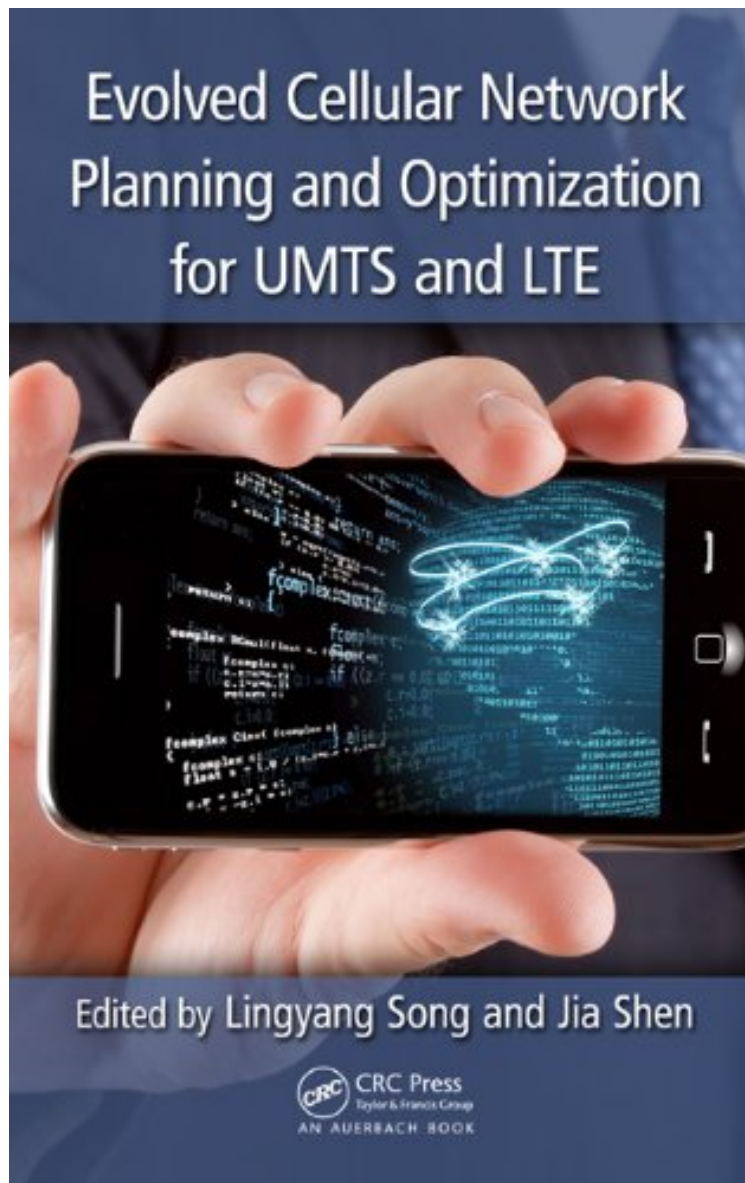


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Planning and Optimization for UMTS and LTE:

Most books on network planning and optimization provide limited coverage of either GSM or WCDMA techniques. Few scrape the surface of HSPA, and even fewer deal with TD-SCDMA. Filling this void, Evolved Cellular Network Planning and Optimization for UMTS and LTE presents an accessible introduction to all stages of planning and optimizing UMTS, HSPA, and LTE cellular networks. Supplying a comprehensive explanation of the fundamental aspects of current and future cellular networks, the text starts with an overview of each type of network, including basic techniques and channel models. Next, it examines the challenges operators and vendors are likely to face explaining the critical role network planning and optimization play in addressing these challenges. The book details effective system-level simulation methods, it also provides:

- A complete overview of UMTS, HSPA, and LTE networks
- Techniques for planning and optimizing cellular networks
- An examination of inter-operation issues with existing cellular networks
- Coverage of the challenges in deploying LTE and relay networks

In addition to exploring the procedures for planning and optimizing each type of network, the text covers techniques for major mechanisms, trending, troubleshooting, and conducting radio performance analysis. Paying special attention to compatibility issues among these networks, this book provides the understanding required to deploy and optimize networks that meet the growing demands for mobile data solutions.