



Radio Resource Management in Cellular Systems (The Kluwer International Series in Engineering and Computer Science, Volume 618) (The Springer International Series in Engineering and Computer Science)

By Nishith D. Tripathi, Jeffrey H. Reed, Hugh F. VanLandingham

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Radio Resource Management in Cellular Systems is the first book to address the critical issue of radio resource management in emerging (i.e., third generation and beyond) wireless systems. This book presents novel approaches for the design of high performance handoff algorithms that exploit attractive features of several existing algorithms, provide adaptation to dynamic cellular environment, and allow systematic tradeoffs among different system characteristics. Efficient handoff algorithms cost-effectively enhance the capacity and quality of service (QoS) of cellular systems. A comprehensive foundation of handoff and related issues of cellular communications is given.

Tutorial-type material on the general features of 3G and 3.5G wireless systems (including CDMA2000, UMTS, and 1xEV-DO) is provided. Key elements for the development of simulators to study handoff and overall RF performance of the integrated voice and data cellular systems (including those based on CDMA) are also described.

Finally, the powerful design tools of neural networks and fuzzy logic are applied to wireless communications, so that the generic algorithm approaches proposed in the book can be applied to many other design and development areas. The simulation models described in the book represent a single source that provides information for the performance evaluation of systems from handoff and resource management perspectives.

Radio Resource Management in Cellular Systems will prove a valuable resource for system designers and practicing engineers working on design and development of third generation (and beyond) wireless systems. It may also be used as a text for advanced-level courses in wireless communications and neural networks.

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- Published on: 2010-02-19
- Released on: 2001-06-01
- Format: Kindle eBook

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