



# **Resource Allocation in Uplink OFDMA Wireless Systems: Optimal Solutions and Practical Implementations (IEEE Series on Digital & Mobile Communication)**

*Elias Yaacoub, Zaher Dawy*

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Tackling problems from the least complicated to the most, *Resource Allocation in Uplink OFDMA Wireless Systems* provides readers with a comprehensive look at resource allocation and scheduling techniques (for both single and multi-cell deployments) in uplink OFDMA wireless networks—relying on convex optimization and game theory to thoroughly analyze performance.

Inside, readers will find topics and discussions on:

- Formulating and solving the uplink ergodic sum-rate maximization problem
- Proposing suboptimal algorithms that achieve a close performance to the optimal case at a considerably reduced complexity and lead to fairness when the appropriate utility is used
- Investigating the performance and extensions of the proposed suboptimal algorithms in a distributed base station scenario
- Studying distributed resource allocation where users take part in the scheduling process, and considering scenarios with and without user collaboration
- Formulating the sum-rate maximization problem in a multi-cell scenario, and proposing efficient centralized and distributed algorithms for intercell interference mitigation
- Discussing the applicability of the proposed techniques to state-of-the-art wireless technologies, LTE and WiMAX, and proposing relevant extensions

Along with schematics and figures featuring simulation results, *Resource Allocation in Uplink OFDMA Wireless Systems* is a valuable book for wireless communications and cellular systems professionals and students.



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