



Fundamentals of Resource Allocation in Wireless Networks: Theory and Algorithms (Foundations in Signal Processing, Communications and Networking)

By Slawomir Stanczak, Marcin Wiczanowski, Holger Boche

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Future wireless networks will be integrated into every aspect of daily life. Therefore, the main objective of this book is to provide tools for better understanding the fundamental tradeoffs and interdependencies in wireless networks.

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Editorial Review

Review

From the reviews of the second edition: "In a world of ubiquitous wireless services there is constant demand for reliable and fast connections. ... The book Fundamentals of Resource Allocation in Wireless Networks: Theory and Algorithms written by Stanczak, Wiczanowski, and Boche, all from Technical University of Berlin, is a great example of a book that presents such a formal analysis toolbox. ... The book is well organized, and the typography is of high standard. For all engineers and scientists interested in advanced concepts in resource allocation this book is a must-read." (Przemyslaw Pawelczak, IEEE Communications Magazine, February, 2010)

From the Back Cover

The wireless industry is in the midst of a fundamental shift from providing voice-only services to offering customers an array of multimedia services, including a wide variety of audio, video and data communications capabilities. Future wireless networks will be integrated into every aspect of daily life, and therefore could affect our life in a magnitude similar to that of the Internet and cellular phones.

This monograph demonstrates that these emerging applications and directions require fundamental understanding on how to design and control wireless networks that lies far beyond what the currently existing theory can provide. It is shown that mathematics is the key technology to cope with central technical problems in the design of wireless networks since the complexity of the problem simply precludes the use of engineering common sense alone to identify good solutions.

The main objective of this book is to provide tools for better understanding the fundamental tradeoffs and interdependencies in wireless networks, with the goal of designing resource allocation strategies that exploit these interdependencies to achieve significant performance gains. The book consists of three largely independent parts: theory, applications and appendices. The latter contain foundational aspects to make the book more understandable to readers who are not familiar with some basic concepts and results from linear algebra and convex analysis.

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