



Multiantenna Systems for MIMO Communications (Paperback)

By Franco DeFlaviis, Lluís Jofre, Jordi Romeu

Morgan Claypool Publishers, United States, 2008. Paperback. Condition: New. Language: English . Brand New Book. Advanced communication scenarios demand the development of new systems where antenna theory, channel propagation and communication models are seen from a common perspective as a way to understand and optimize the system as a whole. In this context, a comprehensive multiantenna formulation for multiple-input multiple-output systems is presented with a special emphasis on the connection of the electromagnetic and communication principles. Starting from the capacity for a multiantenna system, the book reviews radiation, propagation, and communication mechanisms, paying particular attention to the vectorial, directional, and time-frequency characteristics of the wireless communication equation for low- and high-scattering environments. Based on the previous concepts, different space-time methods for diversity and multiplexing applications are discussed, multiantenna modeling is studied, and specific tools are introduced to analyze the antenna coupling mechanisms and formulate appropriate decorrelation techniques. Miniaturization techniques for closely spaced antennas are studied, and its fundamental limits and optimization strategies are reviewed. Finally, different practical multiantenna topologies for new communication applications are presented, and its main parameters discussed. A relevant feature is a collection of synthesis exercises that review the main topics of the book and introduces state-of-the-art system architectures...



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Reviews

This book is very gripping and fascinating. Of course, it can be performed, nevertheless an amazing and interesting literature. I am just pleased to explain how this is basically the finest publication I have gone through within my very own lifestyle and might be the best PDF for possibly.

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Excellent book and beneficial one. It is really fascinating through reading through time period. You are going to like how the author published this ebook.

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