



Introduction to MIMO Communications

Jerry R. Hampton

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This accessible, self-contained guide contains everything you need to get up to speed on the theory and implementation of MIMO techniques. In-depth coverage of topics such as RF propagation, space-time coding, spatial multiplexing, OFDM in MIMO for broadband applications, the theoretical MIMO capacity formula and channel estimation will give you a deep understanding of how the results are obtained, while detailed descriptions of how MIMO is implemented in commercial WiFi and LTE networks will help you apply the theory to practical wireless systems. Key concepts in matrix mathematics and information theory are introduced and developed as you need them, and key results are derived step-by-step, with no details omitted. Including numerous worked examples, and end-of-chapter exercises to reinforce and solidify your understanding, this is the perfect introduction to MIMO for anyone new to the field.

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