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Autore	Primak Serguei
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"Wireless Multi-Antenna Channels: Modeling and Simulation focuses on modeling and simulation of multiple antennas channels, including multiple input multiple output (MIMO) communication channels and impact of such models on channel estimation and system performance. Both narrowband and wideband models are discussed. The book covers topics related to modeling of MIMO channel, their numerical simulation, estimation and prediction, as well as applications to receive diversity and space-time coding techniques. Contains significant fundamental/background material, as well as novel research coverage, which make the book suitable for both graduate students and researchers. Addresses issues such as key-hole, correlated and non i.i.d. channels in the frame of the Generalized Gaussian approach. Provides a unique treatment of generalized Gaussian channels and orthogonal channel representation. Reviews different interpretations of scattering environment, including geometrical models. Focuses on the analytical techniques which give a good insight into the design of systems on higher levels. Describes a number of numerical simulators demonstrating the practical use of this material. Accompanying website will contain additional materials and practical examples for self-study"

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