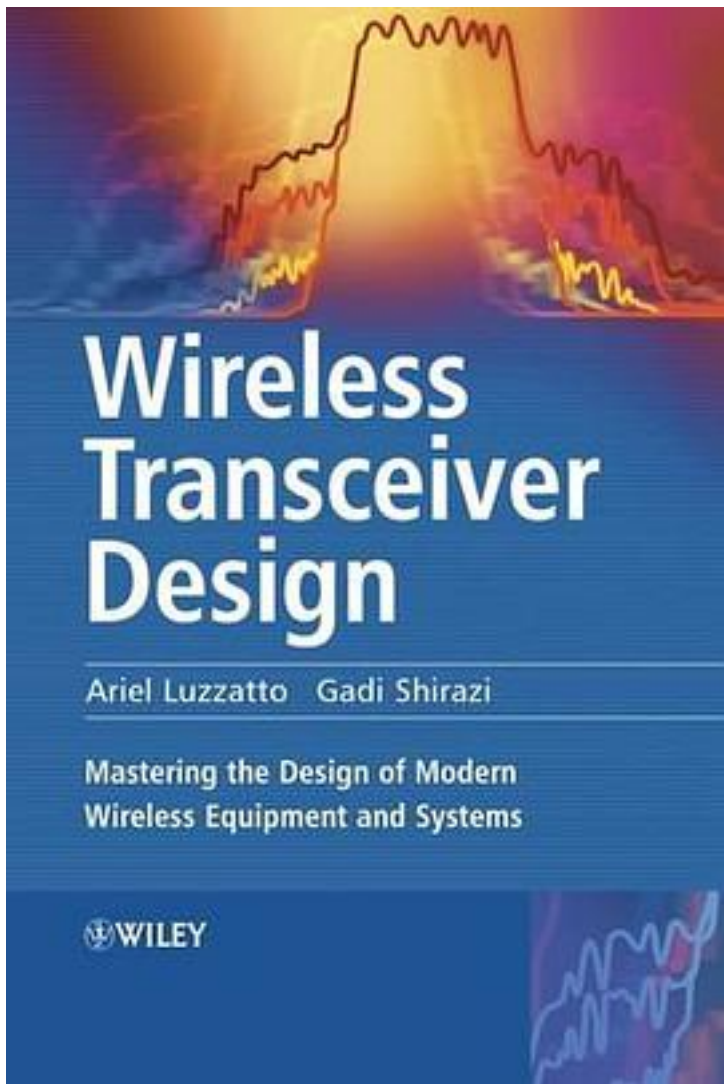


Wireless Transceiver Design



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著者:Luzzatto, Ariel/ Shirazi, Gadi

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The insatiable demand for high-speed real-time computer connectivity anywhere, any time, fuelled by the wide-spreading acceptance of Internet Protocol, has accelerated the birth of a large number of wireless data networks. Wireless Transceiver Design provides a comprehensive, practical, self-contained and friendly guide to theoretical and practical modern wireless modem & transceiver design for experienced radio and communication engineers and students. This book will enable readers to fully understand the specifications that characterize the performance of modern wireless modems and transceivers as a whole system, learn how to measure each one of them, and discover how they depend on (one or more) components and subsystems in the various architectures of widespread use. It discusses the important figures related to off-the-shelf radio-frequency and baseband super-components and explains how to measure them to fully evaluate applicability and limitations. Key Features: Readers will learn to master the design, analysis and measurement of important and hard-to-achieve parameters, such as phase noise of oscillators, peak-to-average and linearity of radio-frequency power amplifiers, amplitude and phase balance of quadrature channels and radiated spurious emission. Written so that each chapter is self contained and suitable to be consulted on an ad-hoc basis as a reference. The lesser covered topic of ‘parasitic phenomena’, the cause of many major after-market disasters, is addressed. The material is treated with in-depth mathematical approach, whilst avoiding unnecessarily obscure discussions. Suitable as the basis for advanced under-graduate and post-graduate engineering courses, as well as a comprehensive reference, this book will be of interest to those involved in R&D in the fields of engineering and computer sciences, radio engineers working on cellular products and system engineers in the wireless arena, as well as professors and lecturers in the field of communications, undergraduate and post-graduate students in engineering, computer sciences and system engineering.

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