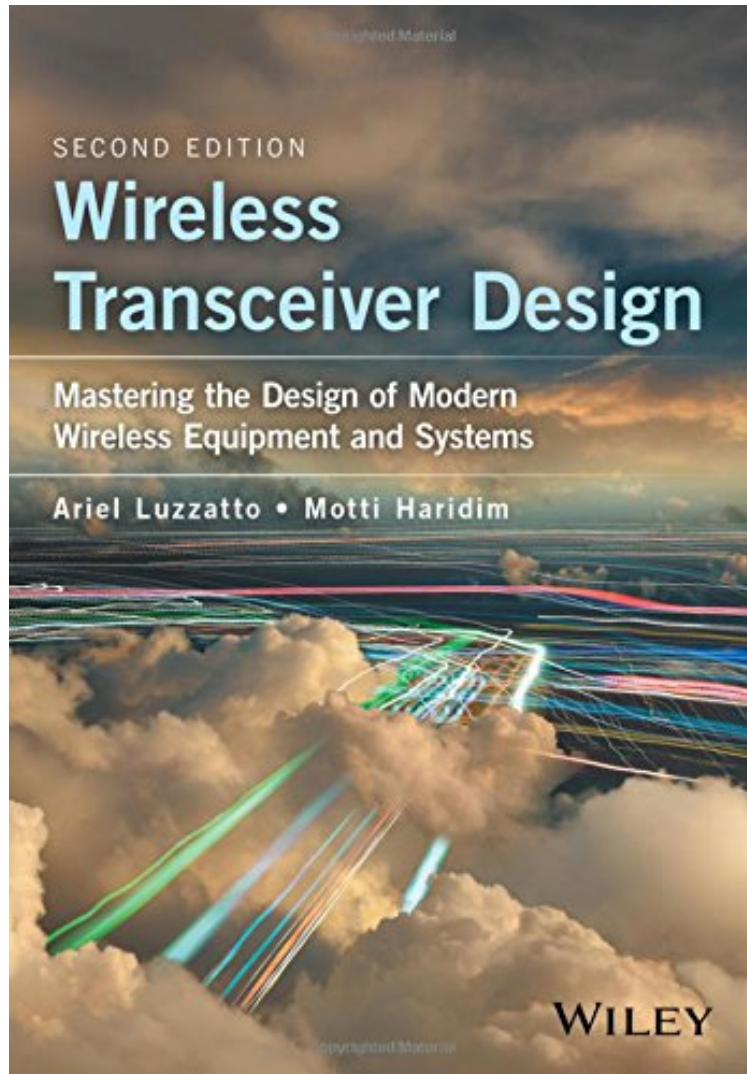


(Download) Wireless Transceiver Design: Mastering the Design of Modern Wireless Equipment and Systems

Wireless Transceiver Design: Mastering the Design of Modern Wireless Equipment and Systems

Ariel Luzzatto, Motti Haridim
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Building upon the success of the first edition (2007), Wireless Transceiver Design 2nd Edition is an accessible textbook that explains the concepts of wireless transceiver design in detail. The architectures and the detailed design of

both traditional and advanced all-digital wireless transceivers are discussed in a thorough and systematic manner, while carefully watching out for clarity and simplicity. Many practical examples and solved problems at the end of each chapter allow students to thoroughly understand the mechanisms involved, to build confidence, and enable them to readily make correct and practical use of the applicable results and formulas. From the instructors' perspective, the book will enable the reader to build courses at different levels of depth, starting from the basic understanding, whilst allowing them to focus on particular elements of study. In addition to numerous fully-solved exercises, the authors include actual exemplary examination papers for instructors to use as a reference format for student evaluation. The new edition has been adapted with instructors/lecturers, graduate/undergraduate students and RF engineers in mind. Non-RF engineers looking to acquire a basic understanding of the main related RF subjects will also find the book invaluable.

From the Back Cover 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 and 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 explains how to measure them to fully evaluate applicability and limitations. 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 RD in the fields of engineering and computer sciences, radio engineers working on cellular products and system engineering 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. **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 treated with an in-depth mathematical approach, whilst avoiding unnecessarily obscure discussions. **About the Author** Ariel Luzzatto has 30 years of experience, most of them designing commercial and industrial communication and RF products with Motorola Israel, and is a former lecturer of communication circuits and systems with Tel Aviv University. He holds a Ph.D. and a M.Sc. in applied mathematics, and a B.Sc. in electronic engineering from Tel Aviv University. Gadi Shirazi has 25 years of experience, most of them designing advanced communication and RF products with Motorola Israel, and is a former lecturer of communication circuits and systems with Tel Aviv University. He holds a M.Sc. and a B.Sc. in electronic engineering from Tel Aviv university, and 24 patents in the field of communications.