



Baseband Receiver Design for Wireless MIMO-OFDM Communications

Tzi-Dar Chiueh, Pei-Yun Tsai, I-Wei Lai

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The Second Edition of *OFDM Baseband Receiver Design for Wireless Communications*, this book expands on the earlier edition with enhanced coverage of MIMO techniques, additional baseband algorithms, and more IC design examples. The authors cover the full range of OFDM technology, from theories and algorithms to architectures and circuits.

The book gives a concise yet comprehensive look at digital communication fundamentals before explaining signal processing algorithms in receivers. The authors give detailed treatment of hardware issues - from architecture to IC implementation.

- Links OFDM and MIMO theory with hardware implementation
- Enables the reader to transfer communication received concepts into hardware; design wireless receivers with acceptable implementation loss; achieve low-power designs
- Covers the latest standards, such as DVB-T2, WiMax, LTE and LTE-A
- Includes more baseband algorithms, like soft-decoding algorithms such as BCJR and SOVA
- Expanded treatment of channel models, detection algorithms and MIMO techniques
- Features concrete design examples of WiMAX systems and cognitive radio applications
- Companion website with lecture slides for instructors

Based on materials developed for a course in digital communication IC design, this book is ideal for graduate students and researchers in VLSI design, wireless communications, and communications signal processing. Practicing engineers working on algorithms or hardware for wireless communications devices will also find this to be a key reference.

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