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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 receiver 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, such as iterative receiver and mobile OFDM equalization. Contains expanded treatment of channel models and MIMO techniques. Demonstrates concrete design examples of the WiMAX system. Features companion website with lecture slides for instructorsBased 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 in industry working on algorithms or hardware for wireless communications devices will also find this book to be a key reference. Companion website for the book:www.wiley.com/go/chiuoh/ofdm2e.
