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Radio Frequency Integrated Circuit Design



Synopsis

Radio frequency integrated circuits (RFICs) are the building blocks that enable every device from cable television sets to mobile telephones to transmit and receive signals and data. This newly revised and expanded edition of the 2003 Artech House classic, "Radio Frequency Integrated Circuit Design", serves as an up-to-date, practical reference for complete RFIC know-how. The second edition includes numerous updates, including greater coverage of CMOS PA design, RFIC design with on-chip components, and more worked examples with simulation results. By emphasizing working designs, this book practically transports readers into the authors' own RFIC lab so they can fully understand how these designs function. This title is suitable for radio frequency integrated circuit (RFIC) design engineers; radio systems architects; researchers and developers of RFIC technology; and, graduate level electrical engineering students.

Book Information

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Customer Reviews

Finally, a good RFIC design book. I have read quite a few and this truly is the best one. The book starts off with discussions about basic RF design (NF, linearity etc) and then talks about each block in the transmitter and receiver chains as a separate chapter. Good in-depth discussion about a lot of circuits. May not be a great book for a class (not that detailed in theory) but a great book for practical design.

If you look into this book carefully and solve every problems, you will find several wrong

descriptions. For example, the answer for SFDR calculation example includes a rudimentary mistake. Yes, you should not always believe in everything written in a textbook as Dr. Egan mentioned. But it is really waste of time to read an untrustworthy textbook. I hope all would be corrected in next edition. Descriptions about PLL, AGC, demodulator, ADC, and DAC are missed in this book.

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