



Advances in Analog and RF IC Design for Wireless Communication Systems: Chapter 2. CMOS Transceivers for Modern Cellular Terminals

Hooman Darabi

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This chapter offers a system-level analysis of advanced RF transceivers intended for use in wireless and particularly mobile applications. An overview of RF cellular standards is presented, followed by a discussion of various radio architectures. The key radio requirements are derived, and translated to circuit specs, giving an overview of a practical top-down radio design. Several radio non-idealities resulting from RF CMOS shortcomings are discussed, and various architectural and calibration techniques are introduced to overcome those. We will also cover more advanced topics such as handset calibration, the evolution to broadband, RF diversity, and next-generation mobile standards and their requirements.

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