



Wireless CMOS Frequency Synthesizer Design (Paperback)

By J. Craninckx, Michiel Steyaert

Springer-Verlag New York Inc., United States, 2010. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The recent boom in the mobile telecommunication market has trapped the interest of almost all electronic and communication companies worldwide. New applications arise every day, more and more countries are covered by digital cellular systems and the competition between the several providers has caused prices to drop rapidly. The creation of this essentially new market would not have been possible without the appearance of small, low-power, high-performant and certainly low-cost mobile terminals. The evolution in microelectronics has played a dominant role in this by creating digital signal processing (DSP) chips with more and more computing power and combining the discrete components of the RF front-end on a few ICs. This work is situated in this last area, i. e. the study of the full integration of the RF transceiver on a single die. Furthermore, in order to be compatible with the digital processing technology, a standard CMOS process without tuning, trimming or post-processing steps must be used. This should flatten the road towards the ultimate goal: the single chip mobile phone. The local oscillator (LO) frequency synthesizer...



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