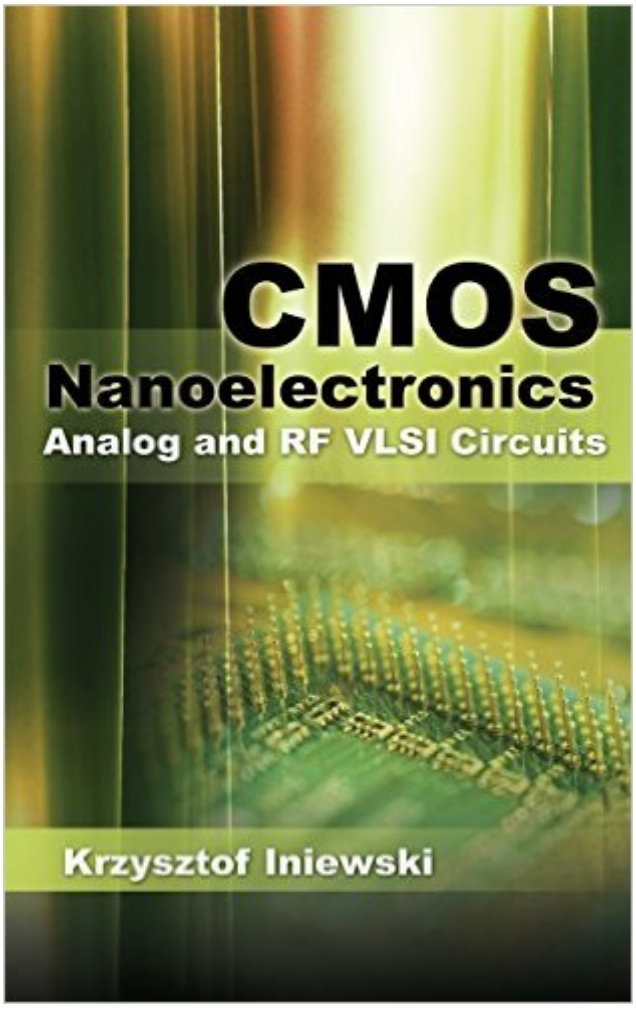
CMOS Nanoelectronics: Analog And RF VLSI Circuits



Synopsis

In-depth coverage of integrated circuit design on the nanoscale level Written by international experts in industry and academia, CMOS Nanoelectronics addresses the state of the art in integrated circuit design in the context of emerging systems. New, exciting opportunities in body area networks, wireless communications, data networking, and optical imaging are discussed. This cutting-edge guide explores emerging design concepts for very low power and describes design approaches for RF transceivers, high-speed serial links, PLL/DLL, and ADC/DAC converters. CMOS Nanoelectronics covers: Portable high-efficiency polar transmitters All-digital RF signal generation Frequency multiplier design Tunable CMOS RF filters GaAs HBT linear power amplifier design High-speed serial I/O design CDMA-based crosstalk cancellation Delta-sigma fractional-N PLL Delay locked loops Digital clock generators Analog design in deep submicron CMOS technologies 1/f noise reduction for linear analog CMOS ICs Broadband high-resolution bandpass sigma-delta modulators Analog/digital conversion specifications for power line communication systems Digital-to-analog converters for LCDs Sub-1-V CMOS bandgap reference design And much more

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