



CMOS: Circuit Design, Layout, and Simulation

By R. Jacob Baker

Wiley India Pvt. Ltd., 2009. Softcover. Condition: New. In this second edition, the authors have taken a new, two path approach to the topic. They develop design techniques for both long- and short-channel CMOS technologies and then compare the two. This approach results in explanations that are multi-dimensional and allows the reader deep insight into the design process. Complete with layout software for the PC, this exceptionally comprehensive presentation of CMOS integrated circuit design will guide you through the process of implementing a chip from the physical definition through the design and simulation of the finished chip. Contents:- Chapter 1: Introduction to CMOS Design Chapter 2: The Well Chapter 3: The Metal Layers Chapter 4: The Active and Poly Layers Chapter 5: Resistors, Capacitors, MOSFETs Chapter 6: MOSFET Operation Chapter 7: CMOS Fabrication Chapter 8: Electrical Noise: An Overview Chapter 9: Models for Analog Design Chapter 10: Models for Digital Design Chapter 11: The Inverter Chapter 12: Static Logic Gates Chapter 13: Clocked Circuits Chapter 14: Dynamic Logic Gates Chapter 15: VLSI Layout Examples Chapter 16: Memory Circuits Chapter 17: Sensing Using Δ Σ Modulation Chapter 18: Special Purpose CMOS Circuits Chapter 19: Digital Phase-locked Loops Chapter 20: Current Mirrors Chapter...



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