



# Cmos Digital Integrated Circuits: Analysis and Design

*Sung-Mo Kang, Yusuf Leblebici*

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This text is the most comprehensive book on the market for CMOS circuits. Aimed at junior/senior courses offered in electrical engineering and computer science, this book starts with CMOS processing, and then covers MOS transition models, basic CMOS gates, dynamic circuits, memory circuits, BiCMOS circuits, I/O circuits, VLSI design methodologies, design for manufacturability and design for testability. This text provides rigorous treatment of basic design concepts with detailed examples. It addresses both design concepts and computer aided analysis for most of the circuit examples. SPICE simulation results are provided for illustration.



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