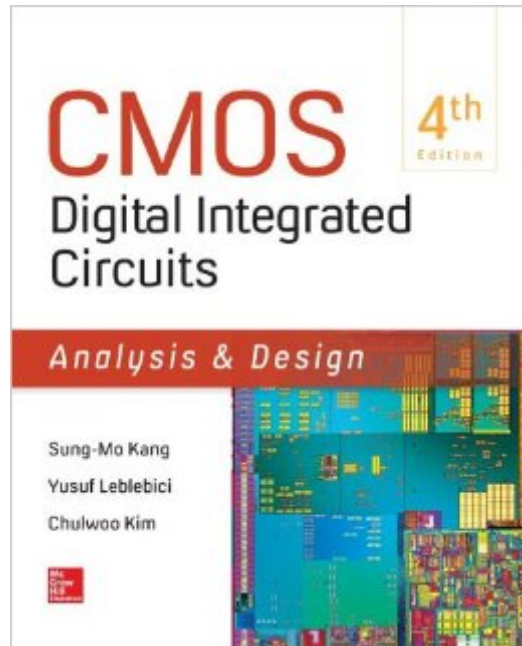


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# CMOS Digital Integrated Circuits Analysis & Design



## Synopsis

CMOS Digital Integrated Circuits: Analysis and Design continues the well-established tradition of the earlier editions by offering the most comprehensive coverage of digital CMOS circuit design, as well as addressing state-of-the-art technology issues highlighted by the widespread use of nanometer-scale CMOS technologies. In this latest edition, virtually, all chapters have been rewritten - the transistor model equations and device parameters have been revised to reflect the significant changes that must be taken into account for new technology generations, and the material has been reinforced with up-to-date examples. The broad-ranging coverage of this textbook starts with the fundamentals of CMOS process technology, and continues with MOS transistor models, basic CMOS gates, interconnect effects, dynamic circuits, memory circuits, arithmetic building blocks, clock and I/O circuits, low-power design techniques, design for manufacturability, and design for testability.

## Book Information

Hardcover: 736 pages

Publisher: McGraw-Hill Education; 4 edition (January 24, 2014)

Language: English

ISBN-10: 0073380628

ISBN-13: 978-0073380629

Product Dimensions: 8.5 x 12 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

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