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Ø Largest fraction of digital IC market until 80 ' s. Ø However, power consumption per gate sets upper limit on the integration density. • MOS (Metal-Oxide-Silicon) Ø First CMOS introduced in 1963. Ø PMOS-only used through early 70's (in the first practical MOS integrated circuits, e.g., calculators).

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The fourth edition of 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 re-written, 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.

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Offers comprehensive coverage of digital CMOS circuit design, as well as addressing technology issues highlighted by the widespread use of nanometer-scale CMOS technologies.

The second edition of this comprehensive text contains extensive revisions to reflect recent advances in technology and in circuit design practices. Recognizing that the area of digital integrated circuit design is evolving at an increasingly fast pace, every effort has been made to present state-of-the-art material on all subjects covered in the book. This book is primarily designed as a comprehensive text for senior level and first-year graduate level digital circuit design classes, as well as a reference for practicing engineers in the areas of IC design and VLSI.

Top-down approach to practical, tool-independent, digital circuit design, reflecting how circuits are designed.

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This is an up-to-date treatment of the analysis and design of CMOS integrated digital logic circuits. The self-contained book covers all of the important digital circuit design styles found in modern CMOS chips, emphasizing solving design problems using the various logic styles available in CMOS.

Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work. The continued scaling down of MOS transistors has broadened the scope of use for circuit technology to the point that texts on the topic are generally lacking after a few years. The second edition of *Digital Integrated Circuits: Analysis and Design* focuses on timeless principles with a modern interdisciplinary view that will serve integrated circuits engineers from all disciplines for years to come. Providing a revised instructional reference for engineers involved with Very Large Scale Integrated Circuit design and fabrication, this book delves into the dramatic advances in the field, including new applications and changes in the physics of operation made possible by relentless miniaturization. This book was conceived in the versatile spirit of the field to bridge a void that had existed between books on transistor electronics and those covering VLSI design and fabrication as a separate topic. Like the first edition, this volume is a crucial link for integrated circuit engineers and those studying the field, supplying the cross-disciplinary connections they require for guidance in more advanced work. For pedagogical reasons, the author uses SPICE level 1 computer simulation models but introduces BSIM models that are indispensable for VLSI design. This enables users to develop a strong and intuitive sense of device and circuit design by drawing direct connections between the hand analysis and the SPICE models. With four new chapters, more than 200 new illustrations, numerous worked examples, case studies, and support provided on a dynamic website, this text significantly expands

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