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The Fourth Edition of "CMOS VLSI Design: A Circuits and Systems perspective" presents broad and in-depth coverage of the entire field of modern CMOS VLSI Design. The authors draw upon extensive industry and classroom experience to introduce today's most advanced and effective chip design practices.

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CMOS VLSI design is like a modular approach to creating ICs. Small circuit blocks are connected into larger circuit blocks which are then connected at the system level to create a complete integrated circuit. These smaller circuit blocks can be analog, digital, or mixed-signal circuits.

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Introduction to CMOS VLSI Design Circuits & Layout. - [PPT ...

To realize complex functions of multiple input variables, the basic circuit structures and design principles developed for NOR and NAND can be extended to complex logic gates. The ability to realize complex logic functions, using a small number of transistors is one of the most attractive features of nMOS and CMOS logic circuits.

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Basic circuits are then composed to form macro elements such as multipliers, where the reader acquires a unified view of architectural performance through parallelism, and circuit performance through careful attention to circuit-level and layout design optimization. Topics in analog circuit design reflect the growing tendency for both analog ...

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Lecture 1: Circuits & Layout

His research interests include CMOS VLSI design, microprocessors, and computer arithmetic. He holds a dozen patents, is the author of three other books in the field of digital design and three hiking guidebooks, and has designed chips at Sun Microsystems, Intel, Hewlett-Packard, and Evans & Sutherland.

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