

## Digital Integrated Circuits A Design Perspective 2 E Jan

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Progressive in content and form, this practical book successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design. Digital Integrated Circuits maintains a consistent, logical flow of subject matter throughout.

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Similarly, Boolean algebra represents two values: true and false. Boolean algebra is a foundational aspect of integrated digital circuit design. Digital integrated circuits use Boolean logic and operate through logic gates, which are physical arrangements of interconnected transistors in a digital chip that are invisible to the naked eye.

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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.

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Welcome to the home of "Digital Integrated Circuits", a dynamic companion to a similarly named book published by Prentice-Hall. The book is intended for use in a senior/graduate level digital circuit design class, but also presents a state-of-the-art reference for professional engineers. Besides providing a solid, in-depth analysis of the operation of digital gates, it addresses the compelling issues facing the modern digital circuit designer such as performance optimization, power ...

Homepage for Digital Integrated Circuits

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Based on intended application, the Integrated Circuit (IC) can be classified as following: Digital Integrated Circuits handle discrete signals such as binary values (0 and 1). These circuits use digital logic gates, multiplexers, flip flops etc.These circuits are easier to design and economical. Analog Integrated Circuits handle contiguous signals. These are two types: linear integrated circuits (Linear ICs) and Radio frequency integrated circuits (RF ICs).

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The revision reflects the ongoing evolution in digital integrated circuit design, especially with respect to the impact of moving into the deep-submicron realm. Features: New - Updating of technology of the deep-submicron realm - The piece makes sure that updates to most of the numeric values with respect to advancing processes can be accomplished easily.

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circuit design, semiconductor device design, antennas, linear systems, digital signal processing, packaging, and materials science. All these talents are carefully coordinated at a cost that allows a wide cross section of the world's population to have available instant communication. The particular aspect of all these activities that is of ...

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