



Digital Integrated Circuits: A Design Perspective

By Jan M. Rabaey

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Intended for use in an undergraduate senior-level digital circuit design class. Advanced material appropriate for graduate courses. Progressive in content and form, this practical text successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design. Beginning with solid discussions on the operation of electronic devices and an in-depth analysis of the nucleus of digital design, the text maintains a consistent, logical flow of subject matter throughout, addressing today's most significant and compelling industry topics: the impact of interconnect, design for low power, issues in timing and clocking, design methodologies, and the tremendous effect of design automation on the digital design perspective.

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Editorial Review

From the Publisher

Progressive in content and form, this practical text successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design. Beginning with solid discussions on the operation of electronic devices and an in-depth analysis of the nucleus of digital design, the text maintains a consistent, logical flow of subject matter throughout, addressing today's most significant and compelling industry topics: the impact of interconnect, design for low power, issues in timing and clocking, design methodologies, and the tremendous effect of design automation on the digital design perspective.

From the Back Cover

Contemporary in content and form, this practical book successfully bridges the gap between the circuit perspective and system perspective of digital integrated circuit design. Beginning with a solid foundation of the operation of electronic devices and an in-depth analysis of the nucleus of digital design, it maintains a consistent, logical flow of subject matter throughout, addressing today's most significant and compelling industry topics: the effect of interconnect, design for low power, issues in timing and clocking, design methodologies, and the tremendous impact of design automation on the digital design perspective. Discusses state-of-the-art topics in design, such as complex gates, adders, multipliers, registers, controllers and memories. Focuses on practical design issues, with examples, design problems and case studies creating practical knowledge readers can readily apply in industrial design. Offers perspectives on the future evolution of design practice at the end of each chapter to put issues discussed in a broader vision. Includes many illustrations and reality-based design problems to foster comprehension. For professional engineers.

Users Review

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