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Similarly, Boolean algebra represents two values: true and false.

Boolean algebra is a foundational aspect of

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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

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that texts on the topic are generally lacking after a few years. The second edition of Digital

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Digital IC design is a procedural process that involves converting specifications and features into digital blocks and then further into logic circuits. Many of the constraints associated with digital IC design come from the

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foundry process and
technological limitations.

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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

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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

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performance
optimization, power ...

Design Perspective

Homepage for Digital
Integrated Circuits
Integrated circuit design,
or IC design, is a subset
of electronics
engineering,
encompassing the
particular logic and
circuit design techniques
required to design

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integrated circuits, or ICs. ICs consist of miniaturized electronic components built into an electrical network on a monolithic semiconductor substrate by photolithography.

Integrated circuit design -
Wikipedia

This book gives a top-down approach of

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designing latest digital integrated circuits by covering all topics of integrated digital circuit design within over 800 pages. I can recommend this book for people who already have basic knowledge of IC design and want to get a closer look over the whole topic and problems that arise in present ...

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and form, this text
successfully bridges the
gap between the circuit

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perspective and system
perspective of digital
integrated circuit design.

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discussions on the
operation of electronic
devices and in-depth
analysis of the nucleus of
digital design, the text
maintains a consistent,
logical flow of subject
matter ...

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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

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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.

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Features: New -

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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

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these activities that is of ...

Design

Radio Frequency Circuit Design

This updated text reflects the ongoing (r)evolution in the world of digital integrated circuit design, caused by this move into the deep-submicron realm. This means increased importance of deep-submicron

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transistor effects,
interconnect, signal
integrity, high-
performance and low-
power design, timing,
and clock distribution.

Digital Integrated
Circuits: Rabaey, Jan,
Chandrakasan ...

Welcome to second
edition of 'Digital
Integrated Circuits: A

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Design Perspective.' In the six years since the publication of the first, the field of digital integrated circuits has gone through some dramatic evolutions and changes. IC manufacturing technology has continued to scale to ever-smaller dimensions.

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