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digital circuit is a module with discrete-valued inputs and outputs and a specification describing the function and timing of the module. This chapter has focused on combinational circuits, circuits whose

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outputs depend only on the
current values of the
inputs.

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can be operated with binary
values, 0 and 1.

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widely used in today's'

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electronics. These circuits are used for a very wide variety of applications.

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that because digital
circuits represent logical
values, it's possible to
combine the basic building

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blocks of a digital circuit using just the rules of logic, and the rules of logic are a whole lot simpler than the laws of physics that ultimately determine how circuits behave. This gives digital

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circuits a kind
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Description The class
provides a first
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electric circuits based on a

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number of discrete voltage levels. Digital circuits are the most common mechanical representation of Boolean algebra and are the basis of all digital computers. They can also be used to process digital information without

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being connected up as a computer. Such circuits are referred to as "random logic".

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variables is determined. The input and output variables are allocated with letter symbols.

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6.374 examines the device and circuit level optimization of digital building blocks. Topics covered include: MOS device models including Deep Sub-Micron effects; circuit design styles for logic,

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~~Digital electronics~~

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Logic gates. Logic gates are the basic building blocks that used to design digital electronic circuitry. A logic gate has one output

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pins and one or more input pins. We have already discussed the output may be HIGH (1) or Low (0) totally depends on the digital level (s) at the input terminal (s).

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Digital circuits use transistors to create logic gates in order to perform Boolean logic. This logic is the foundation of digital electronics and computer

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processing. Digital circuits are less susceptible to noise or degradation in quality than analog circuits. It is also easier to perform error detection and correction with digital signals.

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during my engineering life I found it very interesting and beneficial for this digital world because of this the subject which tells us about the logic behind all the appliances which we ...

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Written in a student-
friendly style, the book
provides an excellent
introduction to digital

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concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and examines both combinational and sequential circuits.

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A digital circuit is a circuit where the signal should be one of two discrete levels. Each level

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is interpreted as one of two different states (for instance, 0 or 1). These circuits built with transistors to make logic gates in order to execute Boolean logic operation. This logic is the base of

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~~Difference Between Analog
Circuit and Digital Circuit~~
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Digital circuits, including
digital computers, are

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formed from binary circuits. Binary digital circuits are electronic circuits whose output can be only one of the two different states. Each state is indicated by a particular voltage or current level.

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