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involving the study of

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the engineering of devices that use or produce them. This is in contrast to analog electronics and analog signals.

Digital electronic circuits are usually made from large assemblies of logic gates, often packaged in integrated circuits.

Complex devices may

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have simple  
electronic  
representations of  
Boolean logic

functions.

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The basic digital  
electronic circuit that  
has one or more  
inputs and single  
output is known as  
Logic gate. Hence,

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the Logic gates are the building blocks of any digital system.

We can classify these Logic gates into the following three categories. Basic gates; Universal gates; Special gates

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numbers that can be both positive and negative. We will

explain this system

shortly. A digital

system typically has a

fixed number of bits

to represent a binary

number. For

example, if we have

four bits, we can have

the numbers from 0

to 15: binary decimal

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0011 3 0100 4

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Representation of Boolean algebra and are the basis of all digital computers.

They can also be used to process digital information without being connected up as a computer. Such circuits are referred to as “ random logic ” .

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Digital circuits are the  
most common  
physical  
representation of

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Boolean algebra, and are the basis of all digital computers. To most engineers, the terms "digital circuit", "digital system" and "logic" are interchangeable in the context of digital circuits. Most digital circuits use a binary system with two voltage levels labeled "0" and "1".

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pumps Pa and Pb are

used to pump water

into a tower. When

the water level in the

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tower goes below level 1 both pumps are required to turn on. Both pumps should remain on until water reaches level 2, then Pa turns off and is to remain off until the water is below level 2.

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Digital circuits are electric circuits based on a 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

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Information without  
being connected up  
as a computer.

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This ON/OFF code is  
exactly how the  
world of digital  
electronics operates.

As you will see later,  
this ON/OFF  
switching is the same



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logic used to build the digital electronic circuits inside your laptop computer, GPS device, and smartphone. Take a look at Figure 1 so the difference between analog and digital worlds is clear in your mind. FIGURE 1.

The Beginner ' s

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the most

common

representation of

Boolean algebra and

are the basis of all

digital circuits for

computers, mobile

phones, and

numerous other

consumer products. A

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digital circuit that acts as a binary clock, hand-wired on a series of

breadboards. The most common fundamental unit of digital electronics is the logic gate. By combining numerous logic gates (from tens to hundreds of thousands) more complex systems can

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concept of

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binary codes, digital  
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both simple and

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