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In Analog Circuit
Design, 1991.

Digital electronics
can be thought of
as dealing with a
world that's either
black or white (or
0/1 or true/false),

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with no fuzzy gray areas between those levels.

Samuel Wilensky tells how analog design is the art of working in those gray areas, with designers required to optimize a circuit by sacrificing one parameter so another can be

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works on batteries
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board, is built by using principles of Digital electronics and Digital Logic design. Digital electronics deals with circuits that operate on digital inputs and outputs.

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involving the study
of digital signals

and 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

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assemblies of logic gates, often packaged in integrated circuits.

Complex devices may have simple electronic representations of Boolean logic functions.

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Basics. Digital circuit design was first started up with a design of relays,

later vacuum

tubes, TTL Transist

or-Transistor Logic,

Emitter coupled

logic, and CMOS

logic. These

designs use a large

number of logical

gates like AND, OR,

NOT, etc integrated

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to understand and
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Questions. 6.A

NAND gate is called a universal logic element because (a) it is used by everybody (b) any logic function can be realized by NAND gates alone (c) all

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the minization And
techniques are
applicable for
optimum NAND
gate realization (d)
many digital
computers use
NAND gates. Ans:b.
7.

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ResearchGate And

Digital Systems

Design. This note

introduces digital

systems design

with hardware

description

languages (HDL),

programmable

implementation

technologies,

electronic design

automation design

flows, design

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considerations and constraints, design for test, system on a chip designs, IP cores, reconfigurable computing, digital system design examples and applications.

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Digital electronics
are the most
common
representation of
Boolean algebra
and are the basis
of all digital circuits
for computers,
mobile phones, and
numerous other
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products. A 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.

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