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Truth Tables,

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- AND, OR, NOT,

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Logic \u0026

Logic Gates:

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#3 Lecture 1 |

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And Computer

Design

Things have
changed, no
doubt, but the
essential basics
of digital logic
and computer
design may not
have change so
much. This book
actually

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explains them,
taking you
through the
whole thing.

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redundancy in
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Main technical

topic : Theory,

design and

analysis of

digital

circuits.

Digital circuits

are building

blocks of

digital systems

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such as
microprocessors
and computers.
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fundamentals are
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of electronic
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techniques for
logic circuits.

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provides a clear
and easily
understandable
discussion of

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(Digital Logic
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LAB A-02 (Week
3) Basic Logic G
ates-

Verification of
Truth Tables

Objectives • To
get familiarity
with the

operation of the
basic logic

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gates and verify the truth tables experimentally.

Tasks Questions

to be done in

the lab and to

be submitted in

the report: 1.

Perform the

study of the

truth table of

the following

...

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organization of
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a digital

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computer. All

digital

computers are

based on a two-

valued logic

system—1/0,

on/off, yes/no

(see binary

code). Computers

perform

calculations

using components

called logic

gates, which are

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integrated
Computer
circuits that
Design Solution
receive an input
Manual By
signal, process
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it, and change
it into an
output signal.
The components
of the gates
pass or block a
clock pulse as
it travels
through them,

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and the output

bits of the

gates control

other ...

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designers build

electronic

components which

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Logical function, power, current, user and protocol

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inputs are some
of the
characteristics
of digital logic
design.

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This book
presents the
basic concepts
used in the

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design and
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design.

This textbook,
based on the

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author's fifteen

years of

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complete

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for turning

students into

logic designers

in one semester.

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describes new

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background in

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logic,

asymptotics,

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features of the presentation are:

- All material is presented in full detail. Every designed circuit is formally specified and implemented, the correctness of the implementation

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of its broad
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computer
applications.
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