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MADE EASY ELECTRICAL ENGINEERING

Digital Electronics By.Ramesh Sir

- Theory
- Explanation
- Derivation
- Example
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DIGITAL ELECTRONICS

Electronics: The study of motion of electron inside a semiconductor is known as electronics.

* semiconductors having controlled conductivity.

* for n-variables we get 2ⁿ combination 2^{2^n} possible functions.

Boolean logic ideal:

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There are classified into three parts-

1. Produce in the constant (0,1)

identity

null operation operation.

2. Uniary operation (Buffer, not)

transfer complementary operation.

3. Binary operations (AND, OR, NAND, NOR, Ex-OR, EXM.
Inhibition, Implication)

Truth Tables

ે ઝ(·	y	fo	fi	f_2	f3	fu	f 5	fo	fr	fs	fa	fio	fu	f12	fu	fic	f15
0	0	0	0	0	Ò	0	0	0	0	1	1	ť	1	1	ı	1	ī
0	1	0	Ŏ,	٥	0		1,	t	t	٥	0	٥	٥	1	1	1	i
Į,	0	0	0	1		٥	0			٥	٥	1	1	٥	0	1	1
	1	0	1	٥	1 .	0		0.1		٥		0	1	٥_	1.	0	1

fo=0 New

f3 = x transfer Buffer

fi = x.y AND

fy = Try Inhibition

f2=n.y Inhibition

(y but not x)

In but not y)

NOTE:

for. Stair case, a escalator Ex-OR logic is used.

$$f_s = \pi + y$$
 or $\pi + y$

NOTE: Ex-nor is also known as co-incidence logic, equivalence logic gate.

Basic logic gates: NOT, AND, OR

Combinational logicgate!

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NAND ? universal logic gare

Ex-NOR } Arthmatic logic gate:

Symbols for logic, gate

X NOT

MAND FIRE OF THE

g - D

$$\frac{\chi}{y} = \sum_{\alpha} x_{\alpha} y = x \overline{y} + x y.$$