

P3360/AEP 3630

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Lecture 24

Boolean operations & gates

All digital operations can be reduced to

Gates =

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NOT

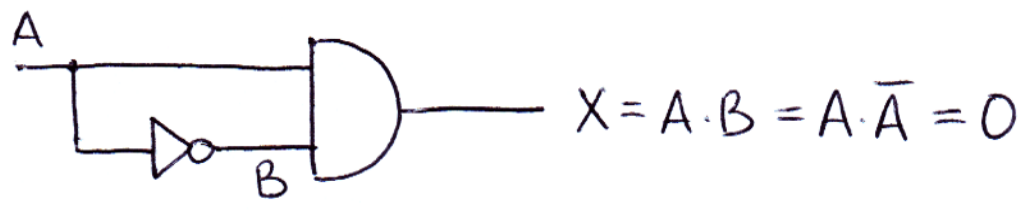
AND

Multiple inputs AND

OR

Multiple inputs OR

Application of time dependent signal



- any complicated fcn

-

-

Universal gates

-

-

-

NAND

NOR

# De Morgan Theorem

(4)

Alternatively

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Rules of Boolean algebra