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Subject - Computer augunication & Asichiteture

RAND

NOR GATE

The NOR gate is also ovinions al gate. So we can also form all the basic gates using the NOR gate. The NoRgate is the Combination of the NOT-OR gate. The output state ofthe NOR gate will be high only when all of the inpok are Now. Simply, this gate deturns to compliment dusult of the OK gate

The logical or Bookron expression for the NOR gate is the Complement of logical multiplication of inputs denoted by

the plans Sign as

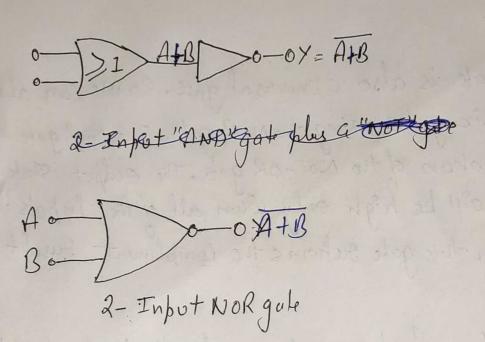
(A+B) = Y

The value of 'Y will be true when all of its Inputs are Set to O.

The two types work gote.

Just like other gotes, it is also a simple form of the NOR gate. In this type of NOR gote, there are

only two input values and an output value there are  $2^2 = 4$  possible Combinations of inputs: the few thanks logic design are on both as



TROTH TABLE

F Input		output
A	B	PA+B
0	0	1
0	A Paris	O MALCO DE
1	O	6
111		0
1		

The 3-Input NoR gate.

Unlike the 2-input N gate, the 3inbut NoR gate has

Those inputs. The Boolean oxpoussion of the logic

A NOR gate 1s also defeoud to as a Universal gote. Because all binary dualized by only using NOR gates