

Nullor

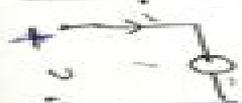
Nullator, Norator, Nullor

→ this is universal analog element just like universal gates NAND and NOR in digital electronics.

→ many researchers have developed new circuit topologies in analog circuits on these elements.

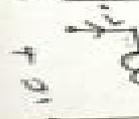
→ Nullator & Norator can't exist independently.

1. Nullator



$V = 0, I = 0$, physically not realizable.

2. Norator



(Inserting a norator in a circuit schematic provides whatever I & V the outside circuit demands)

for this element, $V = \text{arbitrary}$

$I = \text{arbitrary}$

physically not realizable.

→ can have an arbitrary / same random I or V }
 → no restriction on V & I .
 → if op-amp produce error of V it will meet the circuit requirements despite a zero I .

3. Nullor

→ (theoretical two-port network) combination of nullator & norator leads to an circuit called nullor. It has null matrix is why.

called as nullor.



$$\begin{bmatrix} V_1 \\ I_1 \end{bmatrix} = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} V_2 \\ -I_2 \end{bmatrix}$$

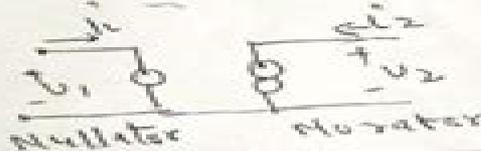
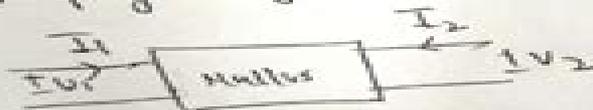
→ Transmission matrix is zero

$$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

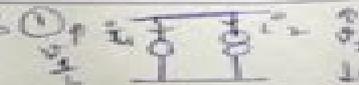
It is a 2-port element defined by $V_1 = 0 = I_1$

$V_2 = \text{arbitrary}$
 $I_2 = \text{arbitrary}$

It is physically realizable.



Trivial cases



$V_1 = V_2 = 0$
 → short-circuit



$I_1 = I_2 = 0$ ⇒ open-circuit



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C. L. Wadhwa



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