EECS 16A ##10.17 LECTURE 14##



this is essentially to measure Vy, an open circuit, so simply switch R3 won't be a problem colors!



Req of n resistors in parallel is Req = 17 Ri . Prove with KCL.

The equivalent resistance of resistors in series is the sum of these resistances. Prove with KVL.

AMPLIFIERS Vin Vour Voltage - Controlled Vin Vour Voltage Source Voltage Source Voltage Controlled Voltage Controlled Voltage Source Voltage Controlled Current Source Current Source Current Source Current Source Voltage Source

SUPERPOSITION $NVA: [Y] \cdot \nabla_n = \text{constant sources} \cdot [Y]^{-1} = \nabla_n$ An easier method is linear superposition. See next page $\notin EECS 16B$.

Vi
$$\bigcirc$$
 Ri Vn Ri \bigcirc V2 1. zero all but 1 source
 $=$ 3. keep repeating for all sources
1. zero V1: \bigcirc \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_2} \bigvee_{R_1} \bigvee_{R_2} \bigvee_{R_2}

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