

Notes in MCEN 5115

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OP AMPS

useful for erreything

3 golden rules:

1. No current in/out of inputs
2. difference between voltages at + and - is 0
3. $Z_{out}=0$

started with an inverting amplifier.

went to a non-inverting amplifier.

Real op-amps:

$I \neq 0$

$\Delta V \neq 0$

I_{out} limit

slew rate: max rate of change of output voltage per unit of time.

Talking about what's inside.

two transistors at the end

totem pole outputs.

talking about issues with positive feedback

hysteresis band.