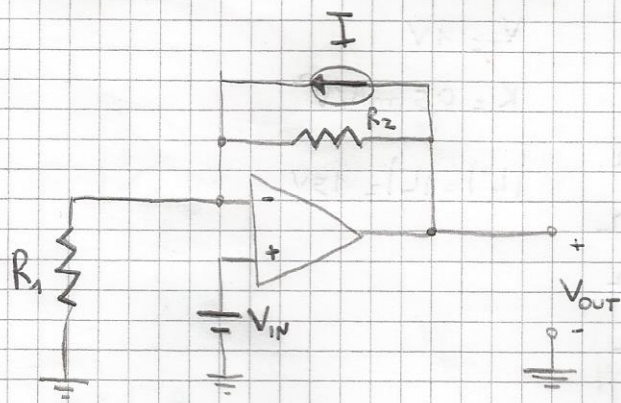


17/01/2013



$$R_1 = 2k\Omega$$

$$R_2 = 6k\Omega$$

$$I = 1mA$$

$$0 \leq V_{IN} \leq 5V$$

$$L^+ = -L^- = 10V$$

Scorapposizione degli effetti:

$$V_{OUT1} = V_{IN} \left(1 + \frac{R_2}{R_1} \right)$$

$$V_{OUT2} = -I \cdot R_2$$

$$V_{OUT} = V_{IN} \left(1 + \frac{R_2}{R_1} \right) - I \cdot R_2$$

$$= V_{IN} \left(1 + \frac{6}{2} \right) - 6V = 4V_{IN} - 6V$$

$$V_{IN} = 0 \Rightarrow V_{OUT} = -6V$$

$$V_{IN} = 1V \Rightarrow V_{OUT} = -2V$$

$$V_{IN} = 2V \Rightarrow V_{OUT} = 2V$$

$$V_{IN} = 3V \Rightarrow V_{OUT} = 6V$$

$$V_{IN} = 4V \Rightarrow V_{OUT} = 10V$$

$$V_{IN} = 5V \Rightarrow V_{OUT} = 10V \text{ (saturazione a } 10V)$$

$$V_{OUT} = f(V_{IN})$$

