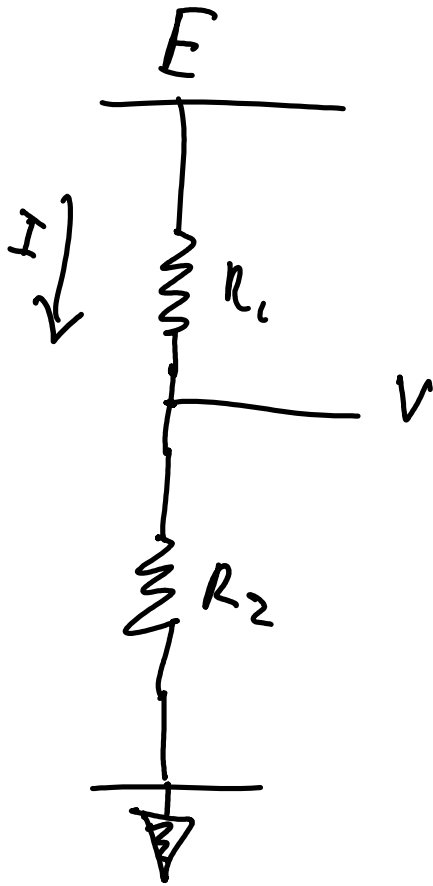


## Partitori tensioni - correnti

Tuesday, December 10, 2024 12:05 PM



## PARTITORE DI TENSIONE

$$E = R_1 I + R_2 I$$

$$E = (R_1 + R_2) I$$

$$V = R_2 I$$

$$I = \frac{V}{R_2}$$

$$E = \frac{V (R_1 + R_2)}{R_2}$$

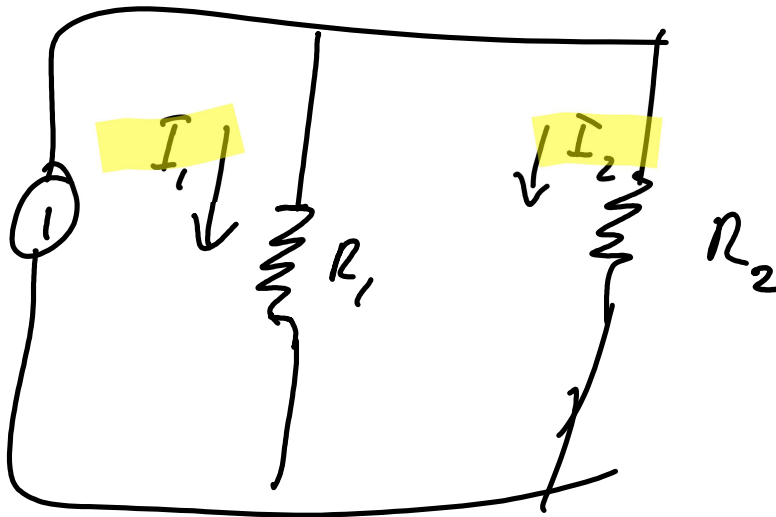
$$V = E \frac{R_2}{R_1 + R_2}$$

$$\text{se } R_2 \gg R_1$$

$$V \approx E$$

>> MOLTO  
MAGGIORE

## PARTITORE DI CORRENTE



$$I = I_1 + I_2$$

$$I_1 R_1 = I_2 R_2$$

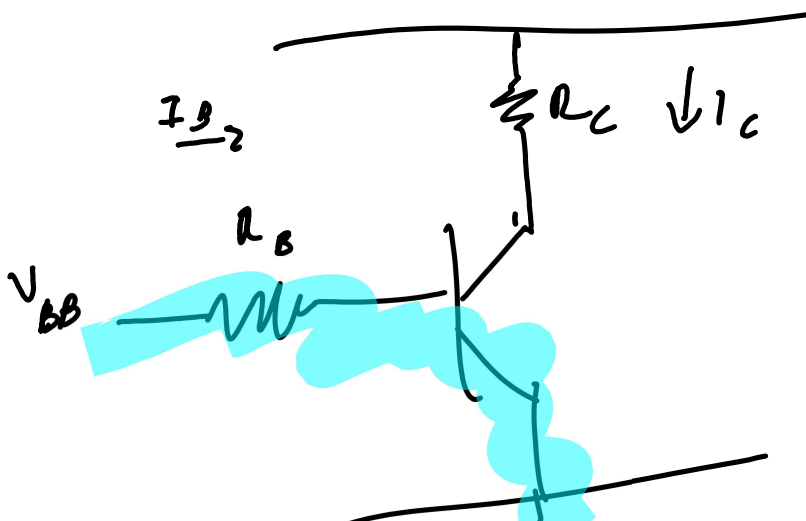
$$I_2 = I_1 \frac{R_1}{R_2}$$

$$I = I_1 + I_2$$

$$I = I_1 \left( 1 + \frac{R_1}{R_2} \right)$$

$$I = I_1 \left( \frac{R_2 + R_1}{R_2} \right)$$

$$I_1 = I \cdot \frac{R_2}{R_2 + R_1}$$



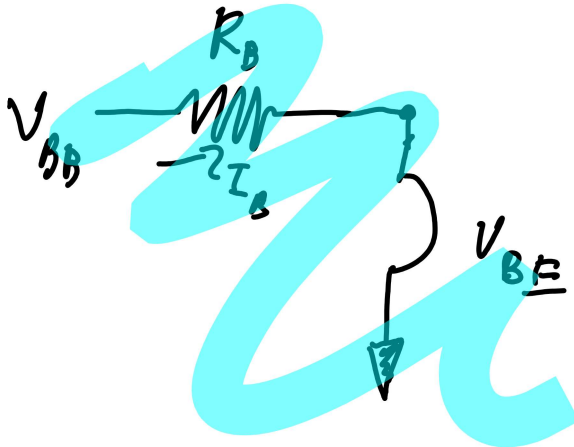
$$V_{BB} = 5V$$

$$V_{CC} = 9V$$

$$R_B = 70 k\Omega$$

$$R_C = 2.7 k\Omega$$

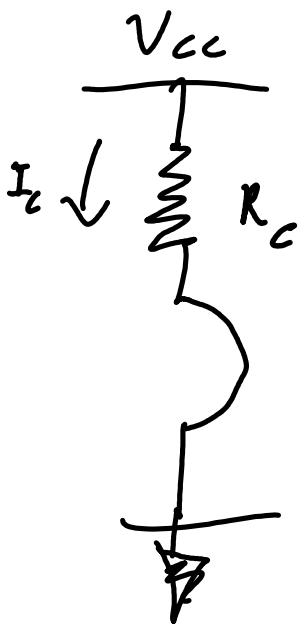
$$h_{FE} = \beta =$$



$$V_{BB} = R_B \cdot I_B +$$

$$5 [V] = 70 k \Omega$$

$$I_B [A] = \frac{4,2}{70}$$



$$V_{CC} = R_C I_C + 0,2$$

$$\frac{9 - 0,2}{2,7 k} = I_C$$

$$I_C = 3,26 mA$$

$I_C$

$$I_B > \frac{I_C}{\beta} \quad ?$$

$$0,06 > 0,0326$$



$$V_{BB} =$$

$$\frac{5 - 70}{70}$$

