

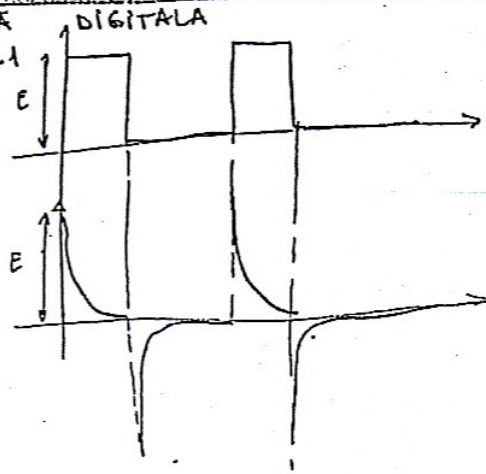
$$i = C \frac{du}{dt}$$

$$u_o = R \cdot C \cdot \frac{du}{dt}$$

$$u_i = u_c + u_o$$

$$u_o = R \cdot C \cdot \frac{du_c}{dt}$$

$$\Rightarrow u_i = u_c + R \cdot C \cdot \frac{du_c}{dt}$$



$$u_c = \frac{1}{C} \int i_c dt$$

