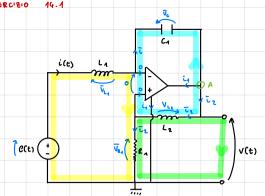
E SERCITAZIONE

ESERCIZIO 14.1

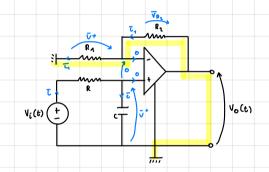


$$A = \frac{1}{2}(-3)(\frac{1-3}{4}) = \frac{1}{8} + 3\frac{5}{4} \rightarrow P = \frac{1}{8}$$

=>
$$P_{\alpha}(t) = P_{+} |\hat{A}| \cos(2wt + L\bar{v} + L\bar{L})$$

= $\frac{1}{3} + \frac{\sqrt{2}}{3} \cos(2wt + \frac{3}{4}\pi)$

ESERCIZIO 2



$$z_{\mu} = R$$
 , $z_{\mu_{A}} = R_{1}$, $z_{\mu_{2}} = R_{2}$
 $z_{c} = -3\frac{4}{\omega_{c}}$

Vi(t) = 5 cm (wt +蛋) V

$$\overline{V}^{+}$$
, \overline{V}_{4} $\frac{\overline{c}_{c}}{\overline{c}_{a+2}c}$ \longrightarrow \overline{c}_{4} , $\frac{\overline{V}^{+}}{\overline{c}_{a}}$

$$\widetilde{V}_0 = \overline{V}_{R_1} + \overline{V}^{\frac{1}{2}} = \overline{Z}_{R_2} \overline{L}_1 + \overline{V}^{\frac{1}{2}} = V^{\frac{1}{2}} \left(1 + \frac{\overline{Z}_{R_1}}{\overline{Z}_{R_1}} \right) = \overline{V}_L \left(\frac{\overline{Z}_L}{\overline{Z}_{R_1}} \right) \left(1 + \frac{\overline{Z}_{R_2}}{\overline{Z}_{R_1}} \right) = \left(1 + \frac{\overline{R}_L}{\overline{R}_1} \right) \frac{1}{1 + \Im w_{RC}} \overline{V}_L$$

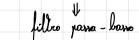
$$H(Jw) = \frac{\overline{V_0}(Jw)}{\overline{V_1}(Jw)} = \left(1 + \frac{R_1}{R_1}\right) \frac{1}{1 + JwRc} = \left(1 + \frac{R_1}{R_1}\right) \frac{1}{1 + J\frac{w}{w_1}}$$

$$\left|H(2m)\right| = \left|1 + \frac{b^4}{b^4}\right| \cdot \left|1\right| - \left|1 + 2\frac{m^4}{b}\right| = \left(1 + \frac{b^4}{b^4}\right) \cdot \frac{\sqrt{1 + \frac{m^4}{b^4}}}{4}$$

are
$$(H(Jw)) = \frac{1+\frac{R_1}{R_1}}{1+\frac{R_2}{R_1}} \cdot \frac{1}{1+\frac{1}{2}w} = -\cot (\frac{w}{w_1})$$







$$V_{0}(Jw) = H(Jw) \cdot \overline{V_{i}}(Jw) = |H| |V_{i}| e^{-J(LH + LY_{i})} = V_{0}(t) = \dots = 5 \cdot \frac{41}{\sqrt{4+(w/w_{T})^{2}}} \cdot Cos(wt + \frac{\pi}{8} - cordon(\frac{w}{w}))$$

$$\frac{1}{1+(w/w_T)^2}$$
 Ces (w

$$V_{o}(t)$$

$$\begin{bmatrix} W_{t} \\ W_{2} \\ W_{3} \end{bmatrix} = \cdots$$

