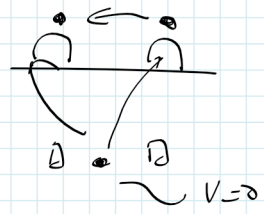
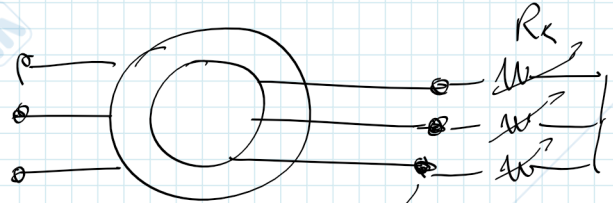


$$T = \frac{R_k i_r^2}{\omega} \Rightarrow R_k \text{ aumentata} \Rightarrow T_{avv} \text{ aumentata}$$

(X_{kr} è prevalente $R_s + R_r$)

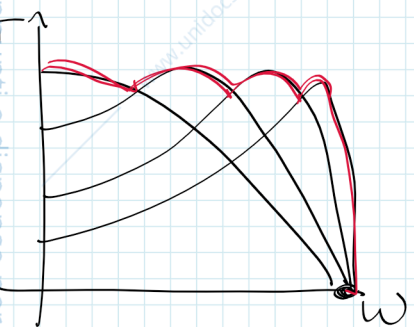
$$i_{avv} = \frac{V_s}{\sqrt{(R_s + R_r)^2 + X_{kr}^2}} \approx \frac{V_s}{X_{kr}}$$

$$T_{avv} \approx \frac{(V_s)^2}{X_{kr}} \cdot R_r$$

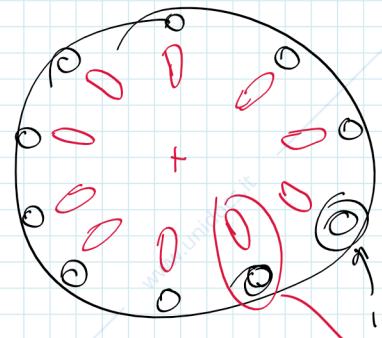


ROTORI AVVOLTO

$X=1$



ROTORI A DOPPIA GABBIA O GABBIA PROFONDA

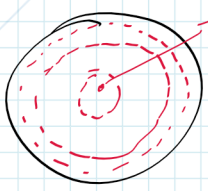


$X \rightarrow 1$ alla partenza 0 al sincronismo
 $X_n = 1\% = 0,01$

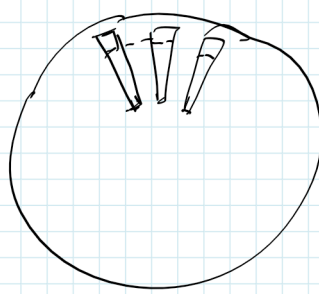
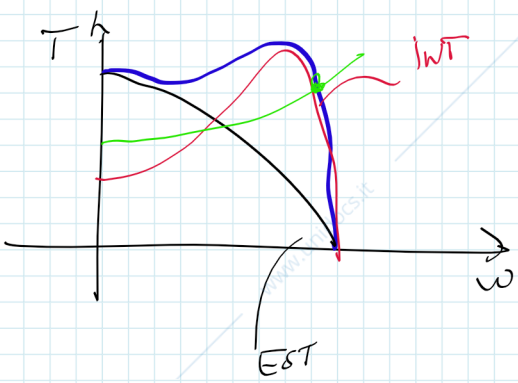
$\omega_R = X \omega$ all'avv (50 Hz) $\rightarrow \omega_R = (2\pi) \cdot 50$

$\omega_{Rn} = X_n \omega$ al punto fine $\rightarrow \omega_R = 0,01 (2\pi) \cdot 50$

$\omega_R = (2\pi) \cdot 0,5$



gabbia est. $R_{EST} > R_{INTERNA}$



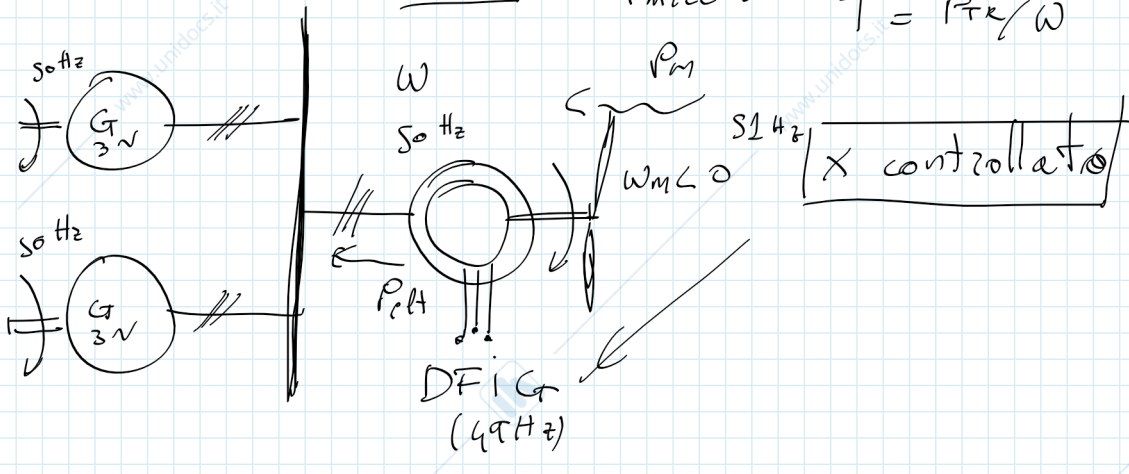
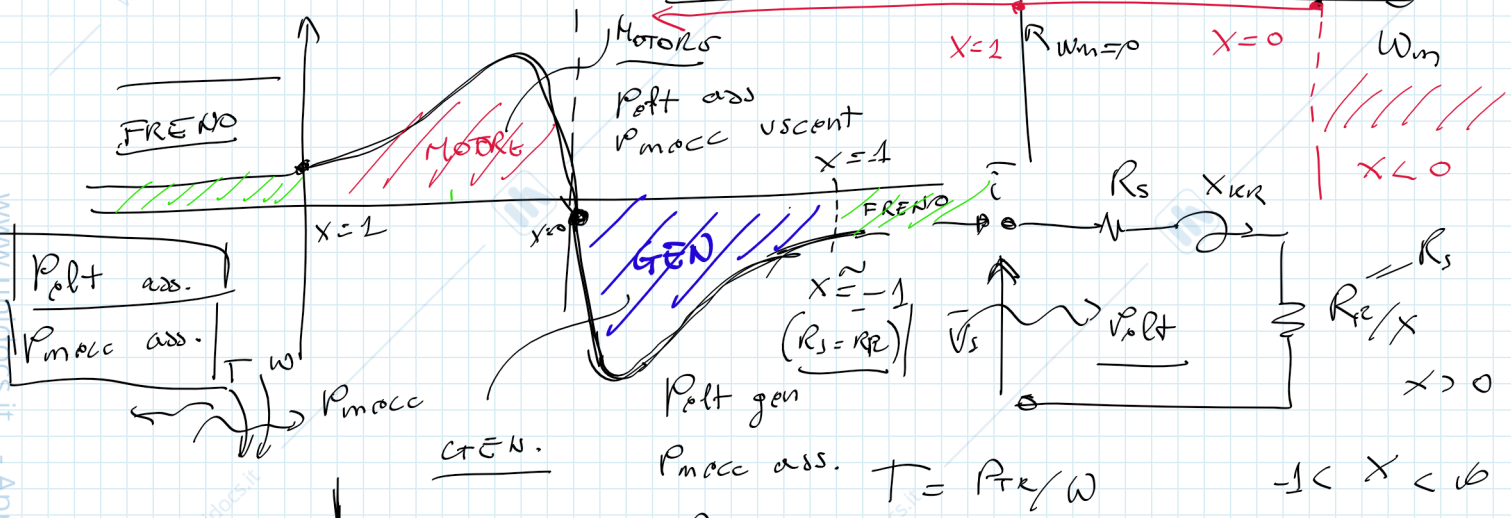
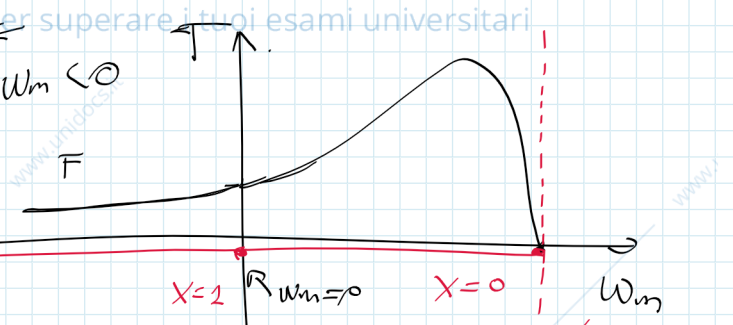
$$\begin{cases} r_s = \text{cost} \\ f_s = \text{cost} \end{cases}$$

$$f_r = \text{dim } 50 \text{ Hz} - 0,5 \text{ Hz}$$

$$P_{TR} = \frac{R_R}{X} \cdot I_R^2$$

$$X = \frac{\omega - \omega_m}{\omega} \quad \omega_m < 0$$

$X < 0 \quad P_{TR} < 0$ (GENERATORE)



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