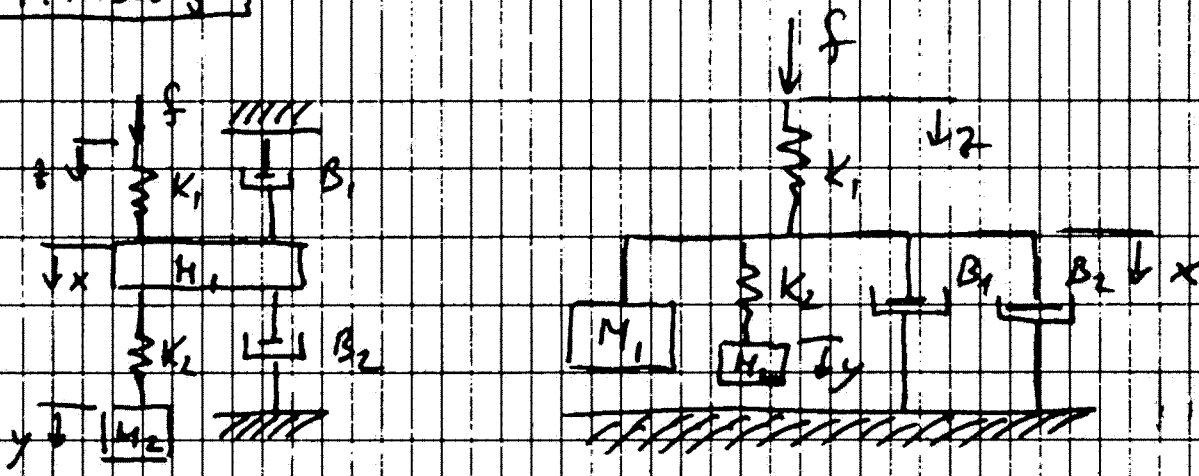


1. Nalosa



$$z_1 = \frac{M_2 K_2 D^2}{M_2 D^2 + K_2}$$

$$z_2 = \frac{M_2 K_2 D^2 + (M_1 D^2 + B_1 D + B_2 D)(M_2 D^2 + K_2)}{M_2 D^2 + K_2}$$

$$= \frac{M_1 M_2 D^4 + M_2 B_1 D^3 + M_2 B_2 D^3 + M_1 K_2 D^2 + M_2 K_2 D^2 + B_1 K_2 D + B_2 K_2 D}{M_2 D^2 + K_2}$$

$$z_{\text{rel}} = \frac{z_2 \cdot K_1}{K_1 + K_2}$$

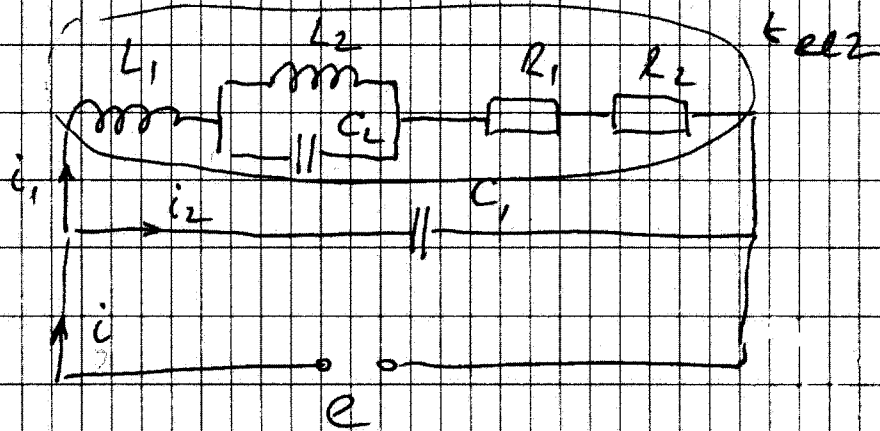
$$= \frac{M_1 M_2 K_1 D^4 + M_2 B_1 K_1 D^3 + M_2 B_2 K_1 D^3 + M_1 K_1 K_2 D^2 + M_2 K_1 K_2 D^2 + B_1 K_1 K_2 D + B_2 K_1 K_2 D}{M_1 M_2 D^4 + M_2 B_1 D^3 + M_2 B_2 D^3 + M_1 K_2 D^2 + M_2 K_2 D^2 + B_1 K_2 D + B_2 K_2 D + K_1 K_2}$$

$$f = z_{\text{rel}} \cdot K_1 + z_2 \cdot K_2$$

$$\frac{x}{f} = \frac{1}{z_2}$$

$$= \frac{M_2 D^2 + K_2}{M_1 M_2 D^4 + M_2 B_1 D^3 + M_2 B_2 D^3 + M_1 K_2 D^2 + M_2 K_2 D^2 + B_1 K_2 D + B_2 K_2 D}$$

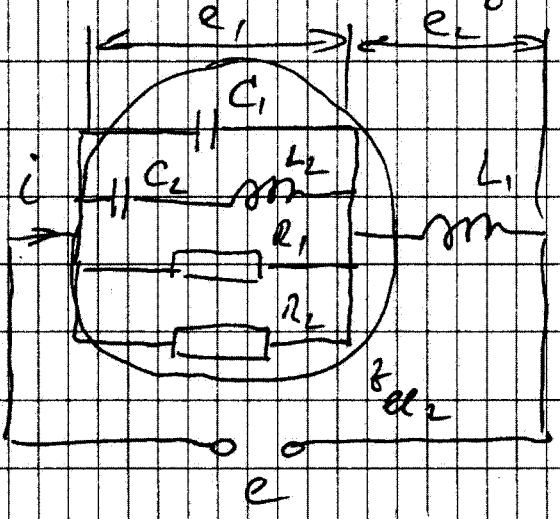
(a) direktus analog



$i \sim Dg$   
 $i_1 \sim Dg_1$   
 $i_2 \sim Dg_2$

$$\frac{i}{e} = \frac{1}{Z_{ell}} \quad \frac{i_1}{e} = \frac{Dg_1}{e} = \frac{1}{Z_{ell}} \Rightarrow \boxed{\frac{i_1}{e} = \frac{1}{Z_{ell}}}$$

(b) inverzno analog



$$\frac{e}{i} = Z_{ell}$$

$$\boxed{\frac{e_1}{i} = Z_{ell2}}$$

$i \sim Dx$

