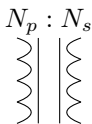
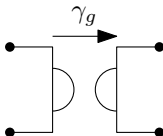


Network diagram symbols

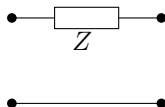
Transformer



Gyrator



Impedance



Variable relationships

$$e_1 = \gamma_t e_2$$

$$q_1 = \frac{1}{\gamma_t} q_2$$

$$e_1 \longleftrightarrow e_2$$

$$q_1 \longleftrightarrow q_2$$

$$e_2 = \gamma_g q_1$$

$$e_1 = -\gamma_g q_2$$

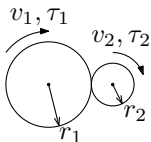
$$e_1 \times e_2$$

$$q_1 \times q_2$$

$$e_1 = Z q_1 + e_2$$

$$q_1 = -q_2$$

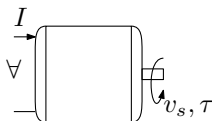
Examples



$$N = \frac{r_1}{r_2}$$

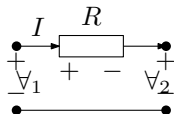
$$v_1 = -\frac{1}{N} v_2$$

$$\tau_1 = N \tau_2$$



$$\tau = -k_\tau I$$

$$V = k_\tau v_s$$



$$V_1 = RI + V_2$$