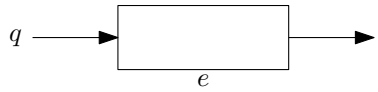
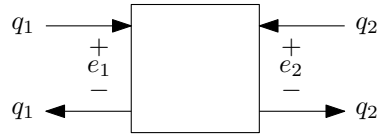
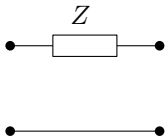
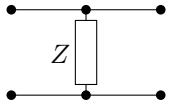
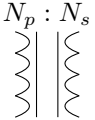
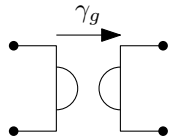
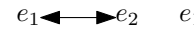
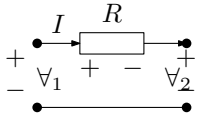
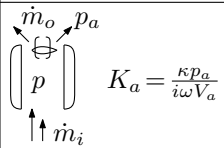
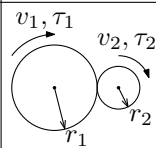
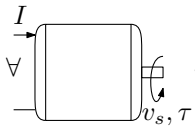
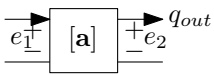
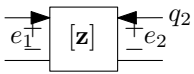
	One-port element	Two-port element		
				
	Series Impedance	Shunt Impedance	Transformer	Gyrator
Network diagram symbols				
Variable relationships	$e_1 = Zq + e_2$ $q = q$	$e = e$ $q_1 = \frac{1}{Z}e - q_2$	 $e_1 = \gamma_t e_2$ $q_1 = \frac{-1}{\gamma_t} q_2$	 $e_2 = \gamma_g q_1$ $e_1 = -\gamma_g q_2$
Examples	 $\forall_1 = RI + \forall_2$	 $K_a = \frac{\kappa p_a}{i\omega V_a}$ $\dot{m}_i = \frac{1}{K_a}p + \dot{m}_o$	 $v_1 = -\frac{1}{N}v_2$ $\tau_1 = N\tau_2$ $N = \frac{r_1}{r_2}$	 $\tau = -k_\tau I$ $\forall = k_\tau v_s$
$ABCD$ form 	$\begin{bmatrix} e_1 \\ q_1 \end{bmatrix} = \begin{bmatrix} 1 & Z \\ 0 & 1 \end{bmatrix} \begin{bmatrix} e_2 \\ q_{out} \end{bmatrix}$	$\begin{bmatrix} e_1 \\ q_1 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 1/Z & 1 \end{bmatrix} \begin{bmatrix} e_2 \\ q_{out} \end{bmatrix}$	$\begin{bmatrix} e_1 \\ q_1 \end{bmatrix} = \begin{bmatrix} \gamma_t & 0 \\ 0 & 1/\gamma_t \end{bmatrix} \begin{bmatrix} e_2 \\ q_{out} \end{bmatrix}$	$\begin{bmatrix} e_1 \\ q_1 \end{bmatrix} = \begin{bmatrix} 0 & \gamma_g \\ 1/\gamma_t & 0 \end{bmatrix} \begin{bmatrix} e_2 \\ q_{out} \end{bmatrix}$
Impedance form 	not defined	$\begin{bmatrix} e_1 \\ e_2 \end{bmatrix} = \begin{bmatrix} Z & Z \\ Z & Z \end{bmatrix} \begin{bmatrix} q_1 \\ q_2 \end{bmatrix}$	not defined	$\begin{bmatrix} e_1 \\ e_2 \end{bmatrix} = \begin{bmatrix} 0 & -\gamma_t \\ \gamma_t & 0 \end{bmatrix} \begin{bmatrix} q_1 \\ q_2 \end{bmatrix}$