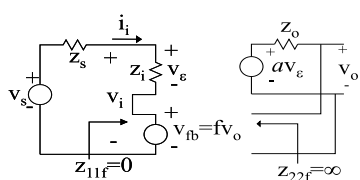
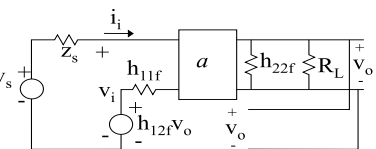
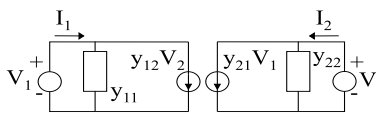
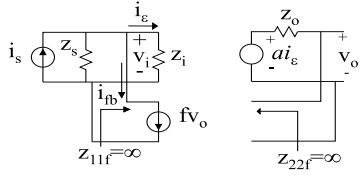
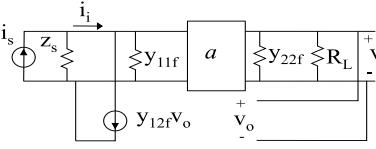
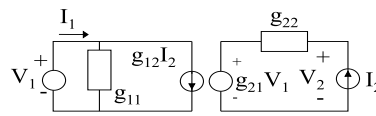
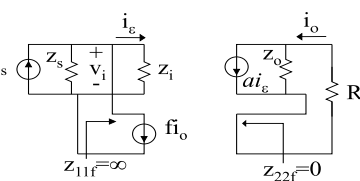
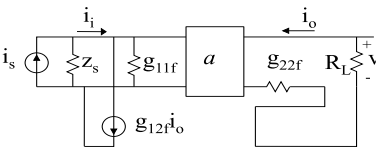
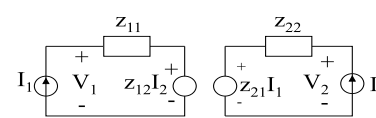
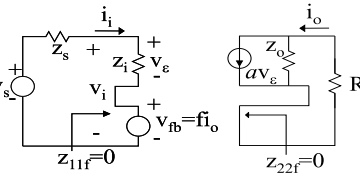
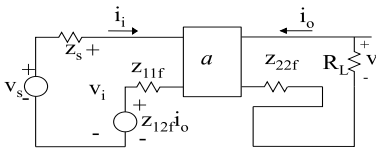
 <p> $V_1 = h_{11}I_1 + h_{12}V_2$ $I_2 = h_{21}I_1 + h_{22}V_2$ </p> <p> $h_{11} = \left. \frac{V_1}{I_1} \right _{V_2=0}$ $h_{12} = \left. \frac{V_1}{V_2} \right _{I_1=0}$ $h_{21} = \left. \frac{I_2}{I_1} \right _{V_2=0}$ $h_{22} = \left. \frac{I_2}{V_2} \right _{I_1=0}$ </p>	<p style="text-align: center;">SERIE/PARALELO</p>  <p> $A = \frac{v_o}{v_s} = \frac{a}{1+af}$ $Z_i = \frac{v_s}{i_i} = z_i(1+af)$ $I_i = \frac{v_s}{z_i} \frac{1}{1+af}$ $Z_o = \frac{z_o}{1+af}$ </p> <p style="text-align: right;">Buen Amplificador de voltaje $Z_i \uparrow$ $Z_o \downarrow$</p>	 <p> $h_{12f} \gg h_{12a}$ $h_{21f} \ll h_{21a}$ </p> <p style="text-align: right;">Buen Amplificador de voltaje $Z_i \uparrow$ $Z_o \downarrow$</p>
 <p> $I_1 = y_{11}V_1 + y_{12}V_2$ $I_2 = y_{21}V_1 + y_{22}V_2$ </p> <p> $y_{11} = \left. \frac{I_1}{V_1} \right _{V_2=0}$ $y_{12} = \left. \frac{I_1}{V_2} \right _{V_1=0}$ $y_{21} = \left. \frac{I_2}{V_1} \right _{V_2=0}$ $y_{22} = \left. \frac{I_2}{V_2} \right _{V_1=0}$ </p>	<p style="text-align: center;">PARALELO/PARALELO</p>  <p> $A = \frac{v_o}{i_s} = \frac{a}{1+af}$ $Z_i = \frac{v_i}{i_s} = \frac{z_i}{1+af}$ $a = \left. \frac{v_o}{i_s} \right _{f=0}$ $Z_o = \frac{z_o}{1+af}$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \downarrow$ $Z_o \downarrow$</p>	 <p> $y_{12f} \gg y_{12a}$ $y_{21f} \ll y_{21a}$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \downarrow$ $Z_o \downarrow$</p>
 <p> $I_1 = g_{11}V_1 + g_{12}I_2$ $V_2 = g_{21}V_1 + g_{22}I_2$ </p> <p> $g_{11} = \left. \frac{I_1}{V_1} \right _{I_2=0}$ $g_{12} = \left. \frac{I_1}{I_2} \right _{V_1=0}$ $g_{21} = \left. \frac{V_2}{V_1} \right _{I_2=0}$ $g_{22} = \left. \frac{V_2}{I_2} \right _{V_1=0}$ </p>	<p style="text-align: center;">PARALELO/SERIE</p>  <p> $A = \frac{i_o}{i_s} = \frac{a}{1+af}$ $Z_i = \frac{v_i}{i_s} = \frac{z_i}{1+af}$ $Z_o = z_o(1+af)$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \downarrow$ $Z_o \uparrow$</p>	 <p> $g_{12f} \gg g_{12a}$ $g_{21f} \ll g_{21a}$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \downarrow$ $Z_o \uparrow$</p>
 <p> $V_1 = z_{11}I_1 + z_{12}I_2$ $V_2 = z_{21}I_1 + z_{22}I_2$ </p> <p> $z_{11} = \left. \frac{V_1}{I_1} \right _{I_2=0}$ $z_{12} = \left. \frac{V_1}{I_2} \right _{I_1=0}$ $z_{21} = \left. \frac{V_2}{I_1} \right _{I_2=0}$ $z_{22} = \left. \frac{V_2}{I_2} \right _{I_1=0}$ </p>	<p style="text-align: center;">SERIE/SERIE</p>  <p> $A = \frac{i_o}{v_s} = \frac{a}{1+af}$ $Z_i = \frac{v_i}{i_i} = z_i(1+af)$ $Z_L \ll z_o$ $Z_o = z_o(1+af)$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \uparrow$ $Z_o \uparrow$</p>	 <p> $z_{12f} \gg z_{12a}$ $z_{21f} \ll z_{21a}$ </p> <p style="text-align: right;">Buen Amplificador de trans-resistencia $Z_i \uparrow$ $Z_o \uparrow$</p>