

= (R+ 1 JGW) (R+ 1 JGW) R+ 1 JGW) (R+ 1 JGW) + BGGW fonchion de tronsfat <u>Ve-VA</u> =

2- fonction de pronofert

$$\frac{V_{e}-V_{A}}{R} = \frac{V_{A}-V_{s}}{Z_{G}} + \frac{V_{A}}{R+Z_{G}}$$

$$\frac{V_{s}}{R} = \frac{V_{A}-V_{s}}{Z_{G}} + \frac{1}{R+Z_{G}} + \frac{1}{R+Z_{G}} - \frac{V_{s}}{Z_{G}} = \frac{V_{e}}{R}$$

$$\frac{V_{s}}{R} = \frac{1}{R\left(1+\frac{R}{Z_{G_{s}}}\right)\left(\frac{1}{R}+\frac{1}{Z_{G_{s}}}+\frac{1}{R+Z_{G_{s}}}-\frac{1}{Z_{G_{s}}}\right)} - \frac{R}{Z_{G_{s}}} = \frac{V_{e}}{R}$$

$$\frac{V_{s}}{V_{e}} = \frac{1}{R\left(\frac{1}{Z_{G_{s}}+R}\right)\left(\frac{Z_{G_{s}}(R+Z_{G_{s}})}{R}+\frac{1}{R+Z_{G_{s}}}+\frac{R}{Z_{G_{s}}}\right)} + \frac{R}{R^{2}_{G_{s}}(R+Z_{G_{s}})} + \frac{R}{R^{2}_{G_{s}}(R+Z_{G_{s}})} + \frac{R}{R^{2}_{G_{s}}(R+Z_{G_{s}})} + \frac{R}{Z_{G_{s}}}$$

$$\frac{V_{s}}{V_{e}} = \frac{1}{R\left(\frac{Z_{G_{s}}+R}{Z_{G_{s}}}\right)\left(\frac{Z_{G_{s}}(R+Z_{G_{s}})}{R}+\frac{Z_{G_{s}}}{R^{2}_{G_{s}}(R+Z_{G_{s}})} + \frac{R}{Z_{G_{s}}}\right)}{R}$$

$$\frac{V_{s}}{V_{e}} = \frac{1}{R\left(\frac{Z_{G_{s}}+R}{Z_{G_{s}}}\right)\left(\frac{Z_{G_{s}}R+Z_{G_{s}}}{R}+\frac{Z_{G_{s}}}{R^{2}_{G_{s}}}+\frac{R}{Z_{G_{s}}}R+\frac{Z_{G_{s}}}{Z_{G_{s}}}}\right)}{R}$$

$$\frac{V_{s}}{V_{e}} = \frac{1}{R^{2}_{G_{s}}R+\frac{Z_{G_{s}}}{R^{2}_{G_$$