

$$45a) T_{80}(p) = H(p) \cdot K(p) = \underbrace{\left(1 + \frac{R_a}{R_b}\right) \cdot \frac{R_2}{R_1}}_{A(\omega)} \cdot \underbrace{\frac{1}{\left[1 + \frac{R_2}{R_1} + \frac{R_2 C_2}{R_1 C_1}\right] + j \left[\frac{R_2 C_2 p}{R_1 C_1} - \frac{1}{R_1 C_1 p}\right]}}_{X(\omega) \cdot Y(\omega)}$$