$$\frac{e_{IN}-\frac{e_o}{2}}{QR} = \frac{Cse_o}{2} + \frac{e_o}{2R^2CS}$$

$$\frac{e_{IN}}{QR} = \frac{e_o}{2}\left[\frac{1}{QR} + Cs + \frac{1}{R^2CS}\right]$$

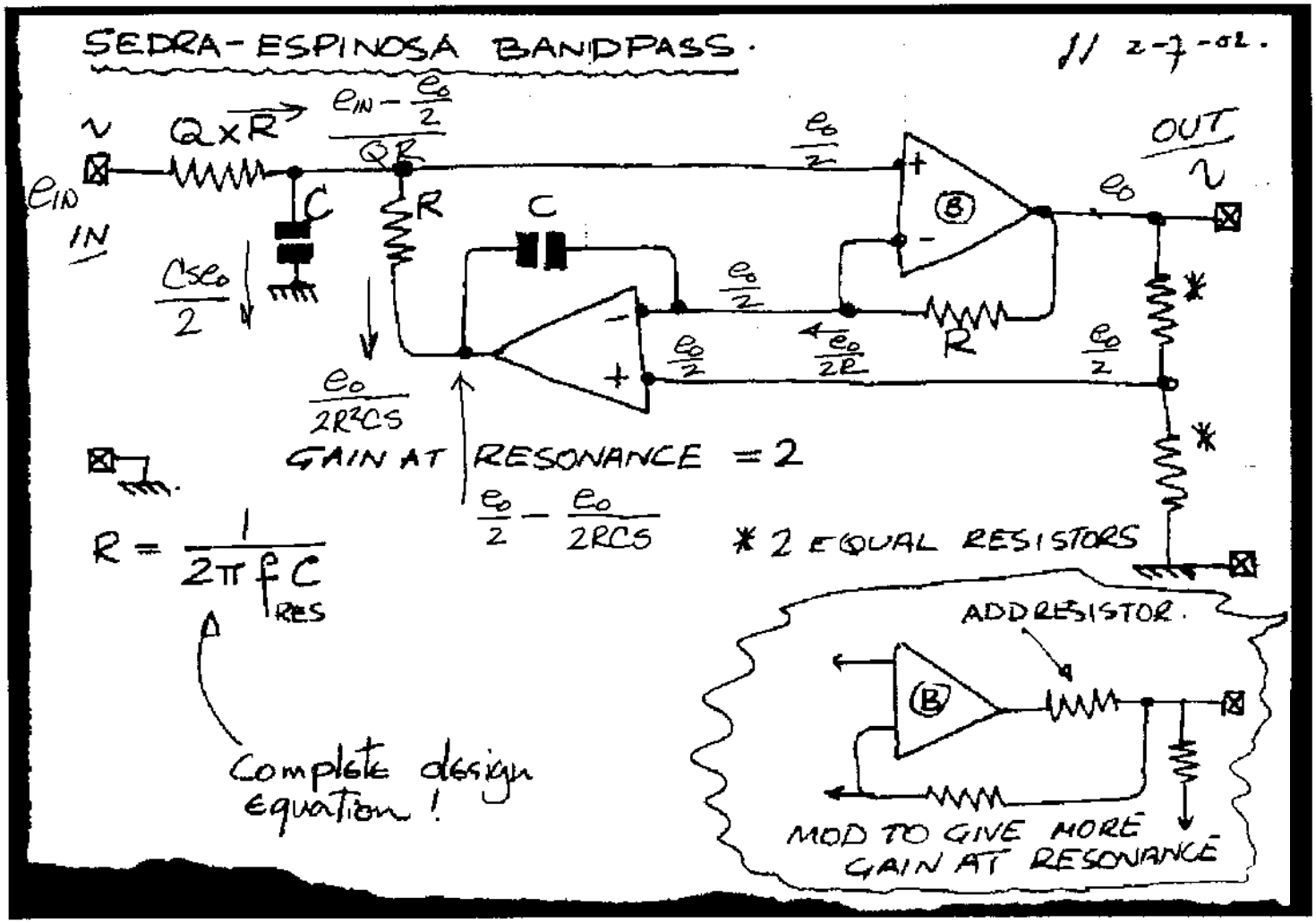
$$e_{IN} = \frac{e_o}{2}\left[1 + QRCs + \frac{QR}{R^2Cs}\right]$$

$$e_{IN} = \frac{e_o}{2}\left[\frac{RCs + QR^2C^2s^2 + Q}{RCs}\right]$$

$$\frac{e_o}{e_{IN}} = 2\,\frac{RCs}{QR^2C^2s^2 + RCs + Q} = 2\cdot\frac{\frac{RC}{Q}s}{R^2C^2s^2 + \frac{RC}{Q}s + 1}$$

(LAPLACE) TRANSFER FUNCTION

$$\omega_o = \frac{1}{RC}$$



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