Notebook for PSB

$$360^{o} \times \frac{60}{1200} = +-18 \qquad r = 1 - \left(\frac{10}{1200}\right) \times \pi = 0.9738$$

$$H(z) = \frac{\left(z - e^{-j18}\right) \times \left(z - e^{j18}\right)}{\left(z - 0.9738 \times e^{-j18}\right) \times \left(z - 0.9738 \times e^{j18}\right)} = \frac{z^{2} - 1.9021 \times z + 1}{z^{2} - 1.8038 \times z + 0.9483} =$$

$$\frac{1 - 1.9021 \times z^{-1} + z^{-2}}{1 - 1.8038 \times z^{-1} + 0.9483 \times z^{-2}} = \frac{x[z]}{y[z]}$$

$$y[n] = x[n] - 1.9021 \times x[n-1]x[n-2] + 1.8038 \times y[n-1] - 0{,}9483 \times y[n-2]$$

$$a_{1} = -1.8038$$
$$a_{2} = 0.9483$$
$$b_{0} = 1$$
$$b_{1} = -1.9021$$
$$b_{2} = 1$$