Exercise 3:121

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$$\rho_{k} = \frac{-\Theta_{k} + \sum_{j=1}^{q-k} \theta_{j} \theta_{j+k}}{1 + \sum_{j=1}^{q} \theta_{j}^{2}}$$

$$1+\sum_{j=1}^{9}\theta_{j}^{2}$$

k=1,2 ,2 ... , 9

92. 0,2 =(.2)2 (.48)2= .2704

$$P_{k} = \frac{-\Theta_{k} + \sum_{j \in I}^{2-k} \Theta_{j} \Theta_{j+k}}{1 + \sum_{j \in I}^{2} \Theta_{j}^{2}}$$

$$\rho_{1} = \frac{.2 + \sum_{j \in I} \Theta_{j} \Theta_{j+1}}{1 + \sum_{j \in I} \Theta_{j}} = \frac{1}{2} \sum_{j \in I} \Theta_{j} \Theta_{j+1} = \Theta_{1} \bullet (\Theta_{2})$$

$$(-.2)(.48)$$

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$$P_2 = M - .48 + \sum_{j=1}^{3} \theta_j \cdot \theta_j - \kappa$$

$$1 + \sum_{j=1}^{2} \theta_j^2 \cdot M$$

$$p_2 = \frac{-.48}{14.2700} = -.3778$$