7.11 Determine all the FIR filters which are specified by the lattice parameters $K_{1}=\frac{1}{2}$ $K_{2}=0.6, K_{3}=-0.7$, and $K_{4}=\frac{1}{3} . \quad K 4=1 / 3$
7.15 Determine the parameters $\left\{K_{m}\right\}$ of the lattice filter corresponding to the FIR filter described by the system function

$$
H(z)=A_{2}(z)=1+2 z^{-1}+z^{-2}
$$

7.16 (a) Determine the zeros and sketch the zero pattern for the FIR lattice filter with parameters

$$
K_{1}=\frac{1}{2}, \quad K_{2}=-\frac{1}{3}, \quad K_{3}=1
$$

(b) The same as in part (a) but with $K_{3}=-1$.
(c) You should have found that all the zeros lie exactly on the unit circle. Can this result be generalized? How?
(d) Sketch the phase response of the filters in parts (a) and (b). What did you notice? Can this result be generalized? How?

