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$$\lambda. \bigcirc \Omega_{12} \qquad Q_{1} = \begin{bmatrix} \omega_{10} - \sin\theta \\ \sin\theta & \omega_{10} \end{bmatrix} = \sum_{i=1}^{j} (5-4) \sin 2\theta + 2 \omega_{10} + 2 \omega_{10} = 2 \cos 2\theta =$$

$$= A^{(1)} = \begin{bmatrix} 6.56 & 0 & 2 \\ 0 & 2.44 & -0.96 \\ 2 & -0.96 & 6 \end{bmatrix}$$

3.
$$X_1 = \begin{bmatrix} -4 \\ 2 \\ 4 \end{bmatrix} \Rightarrow U_1 = X_1 + \sigma e_1 = \begin{bmatrix} -4 \\ 2 \\ 4 \end{bmatrix} + (-6) \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} -10 \\ 2 \\ 4 \end{bmatrix}$$

$$W_{1} \cdot \frac{U_{1}}{||U_{1}||} \cdot \begin{bmatrix} \frac{1}{\sqrt{50}} \\ \frac{1}{\sqrt{50}} \end{bmatrix} \qquad H_{1} \cdot 1 - 2w_{1}w_{1}^{7} = \begin{bmatrix} -\frac{1}{5} & \frac{1}{3} & \frac{1}{5} \\ \frac{1}{5} & -\frac{1}{15} & \frac{11}{15} \end{bmatrix}$$

$$\chi_{2} = \begin{bmatrix} \frac{1}{15} \\ -\frac{11}{15} \end{bmatrix} \rightarrow U_{2} = \chi_{2} + \sigma e_{1} = \begin{bmatrix} \frac{1}{15} \\ -\frac{11}{15} \end{bmatrix} + \frac{\sqrt{27}}{3} \begin{bmatrix} 1 \\ 0 \end{bmatrix}, \begin{bmatrix} -\frac{23+5\sqrt{37}}{15} \\ -\frac{11}{15} \end{bmatrix}$$

$$W_{2} = \frac{U_{2}}{||U_{2}||} \begin{bmatrix} 0.9629 \\ -0.2709 \end{bmatrix}$$
 $H_{3} = \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} + \frac{1}{2} = \begin{bmatrix} -0.1542 & 0.5199 \\ 0.5111 & 0.8541 \end{bmatrix}$

