

$$M_{g1} = M_{g110} + H_1 \cdot f_{11} + H_2 \cdot f_{12} = 0$$

$$M_{g2} = M_{g210} + H_1 \cdot f_{21} + H_2 \cdot f_{22} = 0$$

$$\begin{bmatrix} f_{11} & f_{12} \\ f_{21} & f_{22} \end{bmatrix} \cdot \begin{bmatrix} H_1 \\ H_2 \end{bmatrix} = - \begin{bmatrix} M_{g110} \\ M_{g210} \end{bmatrix}$$

$$\begin{bmatrix} H_1 \\ H_2 \end{bmatrix} = - \begin{bmatrix} f_{11} & f_{12} \\ f_{21} & f_{22} \end{bmatrix}^{-1} \begin{bmatrix} M_{g110} \\ M_{g210} \end{bmatrix} = - \begin{bmatrix} 5,375 & 4,125 \\ 6,75 & \frac{135}{28} \end{bmatrix}^{-1} \begin{bmatrix} M_{g110} \\ M_{g210} \end{bmatrix}$$

$$\det A = 5,375 \cdot \frac{135}{28} - 4,125 \cdot 6,75 = -\frac{27}{14}$$

$$\frac{1}{\det A} \cdot \text{adj } A = A^{-1}$$

$$A_{11} = (-1)^{1+1} \cdot \frac{135}{28} = \frac{135}{28}$$

$$A_{21} = (-1)^{3} \cdot 4,125$$

$$A_{12} = (-1)^{1+2} \cdot 6,75 = -6,75$$

$$A_{22} = 1 \cdot 5,375$$

$$= \begin{bmatrix} 2,5 & -2,138^\circ \\ -3,5 & 2,78704 \end{bmatrix} \begin{bmatrix} M_{g110} \\ M_{g210} \end{bmatrix} \quad 1VR, \cdot 1k\Omega$$

$$H_1 = 2,5 M_{g110} - 2,138^\circ M_{g210} = 2,5 \cdot 682,5 - 2,138^\circ \cdot 915 = -250,8333^\circ \quad (A)$$

$$H_2 = -3,5 M_{g110} + 2,78704 M_{g210} = 161,38^\circ \quad (B)$$

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