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*Elements of  $J_2$ :*

$$\begin{aligned}\frac{\partial P_2}{\partial \delta_2} &= |V_2||V_1||Y_{21}|\sin(\delta_2 + \theta_{21} - \delta_1) - |V_2||V_3||Y_{23}|\sin(\delta_3 + \theta_{23} - \delta_2) \\ &= 1 \times 1.06 \times 5.27 \sin(108.4) - 1 \times 1 \times 7.906 \sin(108.4) \\ &= -12.8\end{aligned}$$

$$\begin{aligned}\frac{\partial P_2}{\partial \delta_3} &= -|V_2||V_3||Y_{23}|\sin(\delta_2 + \theta_{23} - \delta_3) \\ &= -1 \times 1 \times 7.906 \sin(108.4) \\ &= -7.5\end{aligned}$$

$$\begin{aligned}\frac{\partial P_3}{\partial \delta_2} &= -|V_3||V_2||Y_{32}|\sin(\delta_3 + \theta_{32} - \delta_2) \\ &= -1 \times 1 \times 7.906 \sin(108.4) \\ &= -7.5\end{aligned}$$

$$\begin{aligned}\frac{\partial P_3}{\partial \delta_3} &= -|V_3||V_1||Y_{31}|\sin(\delta_3 + \theta_{31} - \delta_1) - |V_3||V_2||Y_{32}|\sin(\delta_3 + \theta_{32} - \delta_2) \\ &= -1 \times 1.06 \times 15.81 \sin(108.4) - 1 \times 1 \times 7.906 \sin(108.4) \\ &= -23.4\end{aligned}$$

*Elements of  $J_3$ :*

$$\begin{aligned}\frac{\partial Q_2}{\partial V_2} &= \{2|V_2||Y_{22}|\sin \theta_{22} + |V_1||Y_{21}|\sin(\delta_2 + \theta_{21} - \delta_1) + |V_3||Y_{23}|\sin(\delta_2 + \theta_{23} - \delta_3)\} \\ &= \{2 \times 1 \times 13.08 \sin(-71.5) + 1.06 \times 5.27 \sin(108.4) + 1 \times 7.906 \sin(108.4)\} \\ &= -12.01\end{aligned}$$

$$\begin{aligned}\frac{\partial Q_2}{\partial V_3} &= \{|V_2||Y_{23}|\sin(\delta_2 + \theta_{23} - \delta_3)\} \\ &= \{1 \times 7.906 \sin(108.4)\} \\ &= 7.5\end{aligned}$$

$$\begin{aligned}\frac{\partial Q_3}{\partial V_2} &= \{|V_3||Y_{32}|\sin(\delta_2 + \theta_{32} - \delta_3)\} \\ &= \{1 \times 7.906 \sin(108.4)\} \\ &= 7.5\end{aligned}$$

$$\begin{aligned}\frac{\partial Q_3}{\partial V_3} &= \{2|V_3||Y_{33}|\sin \theta_{33} - |V_1||Y_{31}|\sin(\delta_3 + \theta_{31} - \delta_1) - |V_2||Y_{32}|\sin(\delta_3 + \theta_{32} - \delta_2)\} \\ &= \{2 \times 1 \times 23.61 \sin(-71.5) + 1 \times 1.06 \times 15.81 \sin(108.4) + 1 \times 7.906 \sin(108.4)\} \\ &= 21.4\end{aligned}$$

*Elements of  $J_4$ :*

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