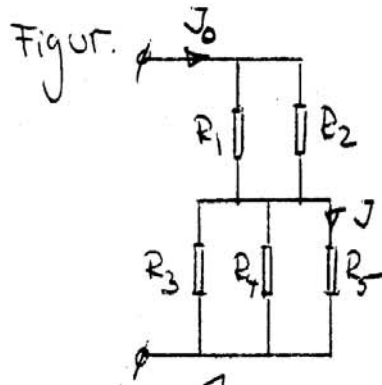


A1.2

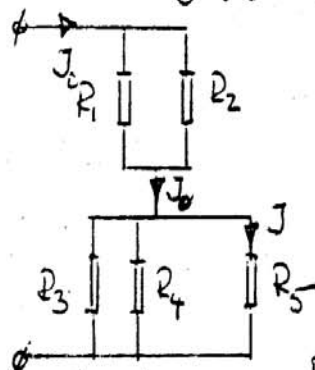


Givet

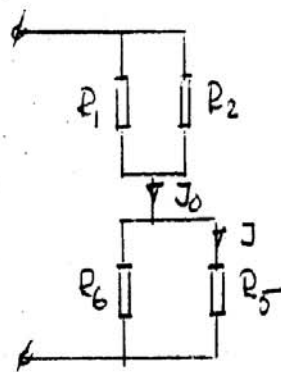
$$\left. \begin{aligned} J_0 &= 10 \text{ A} \\ R_1 &= 4 \ \Omega \\ R_2 &= 6 \ \Omega \\ R_3 &= 8 \ \Omega \\ R_4 &= 12 \ \Omega \\ R_5 &= 10 \ \Omega \end{aligned} \right\}$$

Sökt: strömmen J

Lösning: Rita ny fig! (förenkla!)



$$R_6 = R_3 // R_4 = \frac{R_3 \cdot R_4}{R_3 + R_4} = \frac{8 \cdot 12}{8 + 12} = 4,8 \ \Omega$$



Strömdelningslagen ger:

$$J = J_0 \cdot \frac{R_6}{R_6 + R_5} = 10 \cdot \frac{4,8}{4,8 + 10} = 3,24 \text{ A}$$

SVAR: $J = 3,24 \text{ A}$