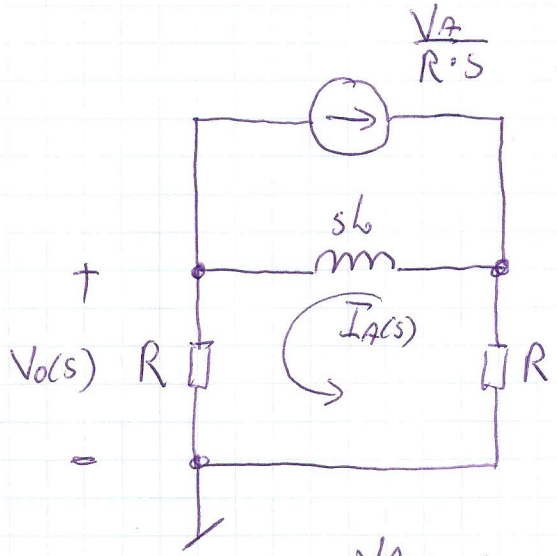
T. R. og T. Ed. 7 Problm. 10-79 AJU F14



KVL: $\left(I_A(s) + \frac{V_A}{R \cdot s}\right) sL + I_A(s) \cdot 2R = 0$

$$\frac{V_A \cdot L}{R} + I_A(s)(sL + 2R) = 0 \Rightarrow I_A(s) = \frac{-\frac{V_A \cdot L}{R}}{sL + 2R}$$

$$I_A(s) = \frac{-\frac{V_A}{R}}{s + \frac{2R}{L}} \Rightarrow V_o(s) = \frac{-V_A}{s + \frac{2R}{L}}$$

Den strøm i L der skal beregnes er modsat rettet $I_A(s)$

dvs. $I_L(s) = \frac{\frac{V_A}{R}}{s + \frac{2R}{L}}$