

**7.2** Use the differential equation approach to find  $i_o(t)$  for  $t > 0$  in the network in Fig. P7.2.

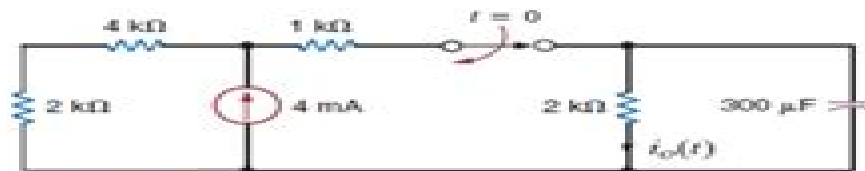
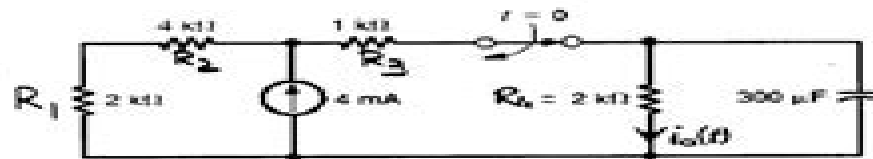
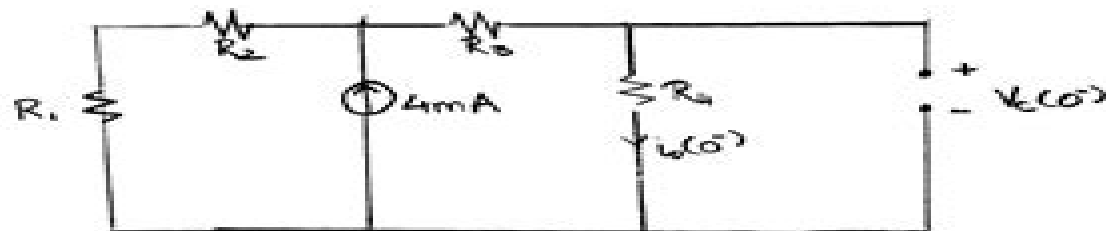


Figure P7.2

**SOLUTION:**



$t = 0^- :$



$$i_o(0^-) = \left( \frac{R_1 + R_2}{R_1 + R_2 + R_3 + R_4} \right) (4 \text{ m})$$

$$i_o(0^-) = \left( \frac{6 \text{ k}}{6 \text{ k} + 1 \text{ k} + 2 \text{ k}} \right) (4 \text{ m})$$

$$i_o(0^-) = 2.67 \text{ mA}$$

# Basic Circuit Analysis 10th Edition Solutions

**Andrzej Dziech, Andrzej Czyzewski**



## **Basic Circuit Analysis 10th Edition Solutions:**

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*Scientific and Technical Books in Print* ,1972      **Multimedia Communications, Services and Security** Andrzej

Dziech, Andrzej Czyzewski, 2012-05-31 This book constitutes the refereed proceedings of the 5th International Conference on Multimedia Communications Services and Security MCSS 2012 held in Krakow Poland in May June 2012 The 37 revised full papers presented were carefully reviewed and selected from numerous submissions The papers address issues such as privacy and data protection using digital watermarking and other technologies object and threat detection data protection and distribution human centric multimedia analysis and synthesis cybercrime detection and counteracting      **Catalog of**

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