

## Solutions Manual for Electrical Engineering Principles and Applications 5th Edition by Allan R. Hambley

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### CHAPTER 2 Resistive Circuits Exercises

- 62.1 (a)  $R_1$ ,  $R_2$ , and  $R_3$  are in parallel. Furthermore,  $R_4$  is in series with the combination of the other resistors. Thus we have:

$$R_{eq} = R_4 + (7k\Omega + 1/(1k\Omega + 1/R_{eq})) = 5\Omega$$

- (b)  $R_2$  and  $R_3$  are in parallel. Furthermore,  $R_4$  is in series with the combination of  $R_1$  and  $R_3$ . Finally,  $R_1$  is in parallel with the combination of the other resistors. Thus we have:

$$R_{eq} = 1/R_1 + 1/(R_2 + 1/(1/R_1 + 1/R_3)) = 5\Omega$$

- (c)  $R_1$  and  $R_2$  are in parallel. Furthermore,  $R_3$  and  $R_4$  are in parallel. Finally, the two parallel combinations are in series:

$$R_{eq} = (7k\Omega + 1/(7k\Omega + 1/R_3)) + 1/(1/R_1 + 1/R_2) = 52.1\Omega$$

- (d)  $R_1$  and  $R_2$  are in series. Furthermore,  $R_3$  is in parallel with the series combination of  $R_1$  and  $R_2$ .

$$R_{eq} = 1/R_3 + 1/(R_1 + R_2) = 1.5k\Omega$$

# Hambley Solution Manual

**Kathleen Armour**



## Hambley Solution Manual:

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