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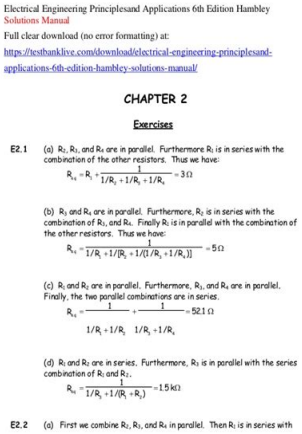

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CHAPTER 2

Exercises

E2.1 (a) R_2, R_3, and R_4 are in parallel. Furthermore R_1 is in series with the combination of the other resistors. Thus we have:

$$R_{eq} = R_1 + 1/R_2 + 1/R_3 + 1/R_4 = 3\,\Omega$$

(b) R_1 and R_4 are in parallel. Furthermore, R_2 is in series with the combination of R_3, and R_5. Finally R_1 is in parallel with the combination of the other resistors. Thus we have:

$$R_{eq} = 1/R_1 + 1/[R_2 + 1/(1/R_3 + 1/R_4)] = 5\,\Omega$$

(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.

$$R_{eq} = \frac{1}{1/R_1 + 1/R_2} + \frac{1}{1/R_3 + 1/R_4} = 52.1\,\Omega$$

(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.

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

E2.2 (a) First we combine R_2, R_3, and R_4 in parallel. Then R_1 is in series with

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