Chapter 6, Solution 18.

4 μF in parallel with 4 μF = 8μF
4 μF in series with 4 μF = 2 μF
2 μF in parallel with 4 μF = 6 μF
Hence, the circuit is reduced to that shown below.

8μF

6 μF   6 μF

C_{eq}
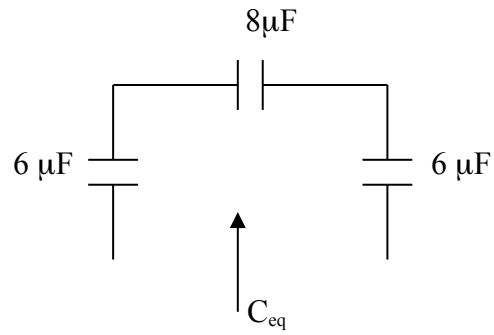
$$\frac{1}{C_{eq}} = \frac{1}{6} + \frac{1}{6} + \frac{1}{8} = 0.4583 \qquad \longrightarrow \qquad C_{eq} = \underline{2.1818\ \mu F}$$