Chapter 6, Solution 16

The equivalent capacitance at terminals a-b in the circuit in Fig. 6.50 is 30 μ F. Calculate the value of C.

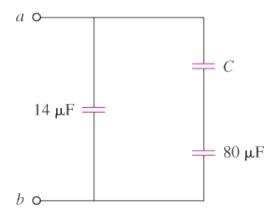


Figure 6.50 For Prob. 6.16.

Solution

$$C_{eq} = 14 + \frac{Cx80}{C+80} = 30 \square C = 20 \mu F$$