

Remember that in a parallel circuit:

- the current in the branches of the circuit (the current "splits up")
- the voltage across each component in the circuit adds up to the total voltage
- the reciprocal of the resistance (add up reciprocals)

$R_{11} = 20 \text{ ohms}$ $R_{12} = 30 \text{ ohms}$ $V_{11} = 12 \text{ V}$
 $V_{12} = 12 \text{ V}$ $I_{11} = 2 \text{ A}$ $I_{12} = 1 \text{ A}$

$R_{21} = 10 \text{ ohms}$ $R_{22} = 30 \text{ ohms}$ $V_{21} = 20 \text{ V}$
 $V_{22} = 20 \text{ V}$ $I_{21} = 2 \text{ A}$ $I_{22} = 2 \text{ A}$

$R_{31} = 12 \text{ ohms}$ $R_{32} = 24 \text{ ohms}$
 $R_{33} = 24 \text{ ohms}$ $V_{31} = 24 \text{ V}$
 $V_{32} = 24 \text{ V}$ $V_{33} = 24 \text{ V}$ $I_{31} = 2 \text{ A}$ $I_{32} = 1 \text{ A}$ $I_{33} = 1 \text{ A}$

$R_{41} = 2 \text{ ohms}$ $R_{42} = 10 \text{ ohms}$
 $R_{43} = 15 \text{ ohms}$ $V_{41} = 12 \text{ V}$ $V_{42} = 12 \text{ V}$ $V_{43} = 12 \text{ V}$
 $I_{41} = 6 \text{ A}$ $I_{42} = 1 \text{ A}$ $I_{43} = 2 \text{ A}$

$V_{51} = 12 \text{ V}$ $V_{52} = 12 \text{ V}$
 $I_{51} = 2 \text{ A}$ $I_{52} = 1 \text{ A}$ $I_{53} = 1 \text{ A}$
 $R_{51} = 20 \text{ ohms}$ $R_{52} = 30 \text{ ohms}$

$V_{61} = 24 \text{ V}$ $V_{62} = 24 \text{ V}$
 $I_{61} = 2 \text{ A}$ $I_{62} = 1 \text{ A}$
 $R_{61} = 10 \text{ ohms}$ $R_{62} = 30 \text{ ohms}$

Physics Fundamentals Parallel Circuit Episode 904

Answer

R Pring



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web the percent recovery of the unknown was 78 shown in calculation 2 meaning again a significant amount of mass was lost during the recrystallization process the melting range of the unknown was observed to be 64 66 c and thus can be identified as biphenyl which has a melting range of 69 71 c

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web fractional crystallization lab 3 scale tray tub trough ice water salt of the rock variety stirring rod funnel hot plate bunsen burner beaker tongs procedure measure the mass of the beakers and record next measure 50 ml of the NaCl KNO_3 solution into the graduated cylinder then pour into the beaker

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