

COMBINED SERIES-PARALLEL CIRCUIT EXAMPLE

GIVEN: Consider the circuit shown, where

$$R_1 = 20\Omega$$

$$R_2 = 20\Omega$$

$$R_3 = 5\Omega$$

$$R_4 = 10\Omega$$

$$R_5 = 15\Omega$$

$$R_6 = 25\Omega$$

$$R_7 = 100\Omega$$

$$V_{\text{batt}} = 120\text{V}$$

REQUIRED:

- The current leaving the battery.
- The power supplied by the battery.
- The voltage across R_2 .

SOLUTION:

- First, combine the three resistors that are in series.

$$R_{3+4+5} = R_3 + R_4 + R_5 = 5\Omega + 10\Omega + 15\Omega$$

$$\underline{R_{3+4+5} = 30\Omega}$$

We can now redraw the circuit as shown.

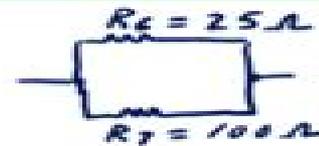


We can now combine all resistors in parallel. By inspection, we note that R_1 and R_2 are in parallel, and R_6 and R_7 are in parallel.



$$R_{1,2} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}} = \frac{1}{\frac{1}{20\Omega} + \frac{1}{20\Omega}} = \frac{1}{\frac{2}{20\Omega}}$$

$$\underline{R_{1,2} = 10\Omega}$$



$$R_{6,7} = \frac{1}{\frac{1}{R_6} + \frac{1}{R_7}} = \frac{1}{\frac{1}{25\Omega} + \frac{1}{100\Omega}} = \frac{1}{\frac{5}{100\Omega}}$$

$$\underline{R_{6,7} = 20\Omega}$$

Circuits And Circuit Elements Problem D Solution

Robert R. Redfield



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The Bell System Technical Journal ,1926 Scientific and Technical Aerospace Reports ,1970 *The Wireless Engineer* ,1942 **Electric Circuit Theory and the Operational Calculus** John Renshaw Carson,1926 COSMIC Software Catalog ,1987 **Journal of the American Institute of Electrical Engineers** ,1921 Includes preprints of Transactions of the American Institute of Electrical Engineers ISSN 0096 3860 **Transactions of the American Institute of Electrical Engineers** ,1923 Physical Review ,1921 Vols for 1903 include Proceedings of the American Physical Society **The Physical Review** ,1921 Vols for 1903 include Proceedings of the American Physical Society **Radio Electronics and Communications Systems** ,1977 **Electronic Technology** ,1930 *Scientific, Medical, and Technical Books Published in the United States of America, 1930-1944* Reginald Robert Hawkins,1950 **The Electrical World** ,1894 Railway Signaling and Communications ,1923 AWA Technical Review Amalgated Wireless (Australasia) Ltd,1939 *Aeronautical Engineering Review* ,1951-07 **Society of Automotive Engineers [preprints].** ,1957 **Beama Journal** ,1927 **High Power Microwave Electronics--measurements, Identification, Applications** ,2001 **Courses Catalog - University of Illinois at Urbana-Champaign** University of Illinois at Urbana-Champaign,1976 Includes undergraduate and graduate courses

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