

CHAPTER 23 Supplemental Problems

SERIES AND PARALLEL CIRCUITS

- Three $12.0\text{-}\Omega$ resistors are connected in series to a 50.0-V power source.

- What is the equivalent resistance of the circuit? $3 \times 12 = 36\ \Omega$

- What is the current in the circuit?

$$I = \frac{50}{36} = 1.39\text{ A}$$

- What is the voltage drop across each resistor? $\frac{50}{3} = 16.7\text{ V}$

- Three $15.0\text{-}\Omega$ resistors are connected in parallel to a 45.0-V power source.

- What is the equivalent resistance of the circuit? $15 \div 3 = 5\ \Omega$

- What is the current in the circuit?

$$45 \div 5 = 9\text{ A}$$

- What is the current through each resistor? $45 \div 15 = 3\text{ A}$

- Two resistors are connected in series to a power source. The voltage drop across the first resistor is 5.40 V and the voltage drop across the second resistor is 9.80 V . The current through the circuit is 1.20 A .

- What is the resistance of each of the resistors? $R_1 = \frac{V_1}{I} = \frac{5.4}{1.2} = 4.5\ \Omega$

$$R_2 = \frac{V_2}{I} = \frac{9.8}{1.2} = 8.17\ \Omega$$

- What is the equivalent resistance of the circuit? $4.5 + 8.17 = 12.67\ \Omega$

- What is the equivalent resistance of the circuit shown below? What is the current in the circuit? What is the voltage drop across the two resistors wired in parallel?



$$R_{eq} = \left(\frac{1}{12} + \frac{1}{12} \right)^{-1} + 88 = 94\ \Omega$$

$$I = \frac{120}{94} = 1.28\text{ A}$$

$$V_1 = 1.28 \times 88 = 112.64\text{ V}$$

$$V_{2,3} = 120 - 112.64 = 7.36\text{ V}$$

Supplemental Problems Current Electricity

Kathleen Armour



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The Top Books of the Year Supplemental Problems Current Electricity The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Supplemental Problems Current Electricity : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Supplemental Problems Current Electricity : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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