

Find Req:



R_9 series w/ R_{10}

$$\begin{aligned} R_{(8)(10)} &= R_9 + R_{10} \\ &= 10\Omega + 2\Omega \\ &= 12\Omega \end{aligned}$$

$$\begin{aligned} R_{(8)(10)} // R_8 &= \frac{(12\Omega)(6\Omega)}{12\Omega + 6\Omega} \\ &= 4\Omega \end{aligned}$$

$$\begin{aligned} R_{(8)(10)} // R_8 + R_7 &= 4\Omega + 8\Omega \\ &= 12\Omega \end{aligned}$$

$$\begin{aligned} R_{12\Omega} // R_6 &= \frac{(6\Omega)(12\Omega)}{12\Omega + 6\Omega} \\ &= 4\Omega \end{aligned}$$

$$\begin{aligned} R_{(4)(6)} + R_5 &= 4\Omega + 4\Omega \\ &= 8\Omega \end{aligned}$$

$$\begin{aligned} R_{(4)(6)} // R_4 &= \frac{(8\Omega)(8\Omega)}{8\Omega + 8\Omega} \\ &= 4\Omega \end{aligned}$$

$$\begin{aligned} R_{(4)(6)} // R_4 + R_3 &= 4\Omega + 4\Omega \\ &= 8\Omega \end{aligned}$$

$$\begin{aligned} R_{(8)(10)} // R_8 + R_3 &= \frac{(8\Omega)(8\Omega)}{8\Omega + 8\Omega} \\ &= 4\Omega \end{aligned}$$

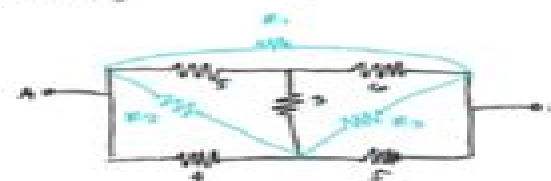
$$\begin{aligned} R_1 + R_{(8)(10)} // R_8 + R_3 &= 4\Omega + 6\Omega \\ &= 10\Omega \end{aligned}$$

$$R_{AB} = R_{eq} = 10\Omega$$

Find R_{AB}



Simplifying this using Wye-Delta Conversion



$$R_1 = \frac{(5)(5) + (5)(4) + (2)(4)}{3} = 21\Omega$$

$$R_2 = \frac{(5)(2) + (5)(4) + (5)(4)}{5} = 10.5\Omega$$

$$R_3 = \frac{(5)(4) + (5)(4) + (2)(4)}{5} = 12.5\Omega$$



$$R_1 // R_{(4)(6)}$$

$$= \frac{(21)(10.5)}{21 + 10.5} = 2.897\Omega$$

$$R_2 // R_{(4)(6)}$$

$$= \frac{(5)(12.5)}{5 + 12.5} = 3.550\Omega$$

$$R_{1(2.897)} + R_{2(3.550)}$$

$$= 2.897\Omega + 3.550\Omega$$

$$= 6.447\Omega$$

$$R_{(6.447)} // R_{11}$$

$$= \frac{(6.447)(21)}{6.447 + 21}$$

$$= 4.950\Omega$$

$$R_{AB} = 4.950\Omega$$

Electronics Solved Problems

B. Somanathan Nair



Electronics Solved Problems:

Adopting the Tune of Appearance: An Mental Symphony within **Electronics Solved Problems**

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Table of Contents Electronics Solved Problems

1. Understanding the eBook Electronics Solved Problems
 - The Rise of Digital Reading Electronics Solved Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Electronics Solved Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electronics Solved Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electronics Solved Problems
 - Personalized Recommendations

- Electronics Solved Problems User Reviews and Ratings
- Electronics Solved Problems and Bestseller Lists
- 5. Accessing Electronics Solved Problems Free and Paid eBooks
 - Electronics Solved Problems Public Domain eBooks
 - Electronics Solved Problems eBook Subscription Services
 - Electronics Solved Problems Budget-Friendly Options
- 6. Navigating Electronics Solved Problems eBook Formats
 - ePub, PDF, MOBI, and More
 - Electronics Solved Problems Compatibility with Devices
 - Electronics Solved Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electronics Solved Problems
 - Highlighting and Note-Taking Electronics Solved Problems
 - Interactive Elements Electronics Solved Problems
- 8. Staying Engaged with Electronics Solved Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electronics Solved Problems
- 9. Balancing eBooks and Physical Books Electronics Solved Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electronics Solved Problems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electronics Solved Problems
 - Setting Reading Goals Electronics Solved Problems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electronics Solved Problems
 - Fact-Checking eBook Content of Electronics Solved Problems

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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