EXPERIMENT 3: Thevenin's Theorem

INTRODUCTORY INFORMATION:

Thevenin's Theorem states that any two-terminal active network may be replaced by a simple equivalent circuit consisting of a constant voltage source V_{TH} in series with resistance R_{TH} seen between these terminals.

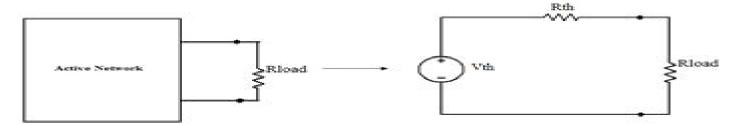


Figure 17: Original Network

Figure 18: Thevenin's Equivalent

Figure 17 shows an active network driving a load resistor R_L. This active network can be replaced by an equivalent circuit shown in Figure 18. The voltage V_{TH} is the voltage seen across the load terminals in the original network, with the load resistance R_L removed (open circuit voltage). The resistance R_{TH} is the resistance seen from the terminals of the open load when the voltage sources in the circuit are replaced by their internal resistances.

Multisim Lab Manual

Massimo Mitolo

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Table of Contents Multisim Lab Manual

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

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