

Pre-Lab 1: Half-Wave Rectifier

• INTRODUCTION

Diodes are a critical part of DC power supplies. The half-wave rectifier is the simplest type of AC-to-DC converter. The overall goal of PreLab1 is to simulate some half-wave rectifier circuits that you will test during the lab session.

• GENERAL GUIDELINES

- 1) Each student must turn in his/her own Pre-Lab assignment (include both schematics and waveforms).
- 2) Students are allowed (even encouraged) to work together. **However, you must turn in your own work!** Turning in multiple printouts of the same schematic/waveforms (with different student names) will result in ZERO points.
- 3) You will be using the program Multisim for all simulations. The program is installed on all of the computers in N100, N102, and N106.

NOTE: There will be two lab exams during the term. Each lab exam will test each student's ability to use Multisim and build/test a circuit.

• PART 1: HALF-WAVE RECTIFIER

TASK 1a: Simulate the half-wave rectifier shown below. Use the tutorial on the WEB site to get started.

- The voltage source is a sine wave generator ($10V_{pp}$, 60 Hz) in series with a 50 ohm resistor. This is a pretty good approximation of the Agilent 33220 function generators in N100.
- Note that $10 V_{pp}$ means **peak-to-peak**, so the sine wave amplitude is actually 5 V.
- The 1N4002 diode can be selected from the place menu by selecting: component | Diodes | Diode | 1N4004G.
- The resistor is 10 kohm.
- From the menu bar select: simulate | Analysis | Transient. Set the End Time to .05 s and the minimum number of points to 1000.
- After running the simulation a "Grapher" screen will pop up. Turn on the Grid. From the Cursor menu select show cursors and then select to the next Y MAX $\Rightarrow$. After the cursor goes to the maximum point select Add Data Label at Cursor.
- Your simulated waveform should look like the graph shown below.
- Turn in both the schematic and waveform.

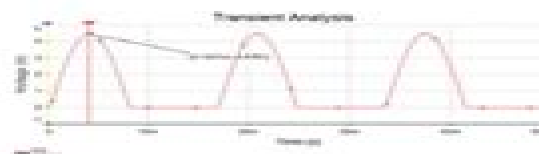
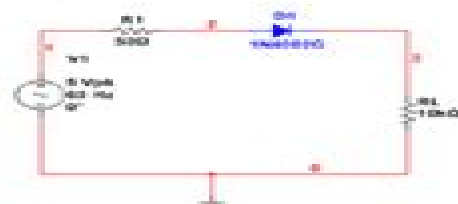


Figure 1: Circuit schematic and simulated load voltage.

Half Wave Rectifier Lab Manual With Answer

Michael Seilmaier



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Table of Contents Half Wave Rectifier Lab Manual With Answer

1. Understanding the eBook Half Wave Rectifier Lab Manual With Answer
 - The Rise of Digital Reading Half Wave Rectifier Lab Manual With Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Half Wave Rectifier Lab Manual With Answer
 - 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 Half Wave Rectifier Lab Manual With Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Half Wave Rectifier Lab Manual With Answer
 - Personalized Recommendations
 - Half Wave Rectifier Lab Manual With Answer User Reviews and Ratings

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