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).
- 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.
- 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_{FF}, 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 cursers and then select to the next Y MAX =>. 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

Julia Schneider

Half Wave Rectifier Lab Manual:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through Half Wave Rectifier Lab Manual

In a global inundated with displays and the cacophony of immediate transmission, the profound power and psychological resonance of verbal art usually diminish in to obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, located within the lyrical pages of **Half Wave Rectifier Lab Manual**, a charming work of literary brilliance that impulses with raw emotions, lies an wonderful trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus courses viewers on a mental odyssey, delicately revealing the latent possible and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its captivating writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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