

- One (1) 1n Farad Capacitor
- 741 Op-Amp
- Multisim Version 11, by National Instruments
- Oscilloscope

### III. CIRCUIT DIAGRAM:

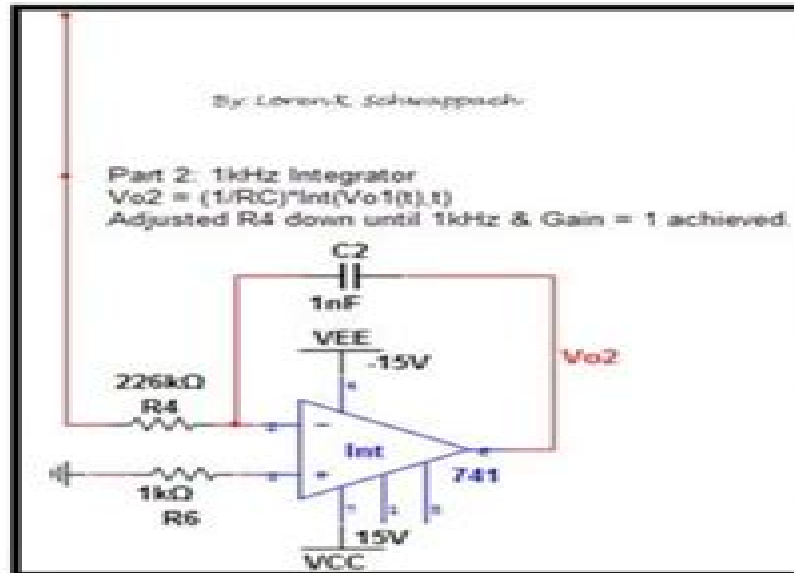


Figure 4: Multisim 1 KHz Integrator, designed the same as the integrator in lab #1 but using different RC values.

### IV. RESULTS:

As shown by Figure 5 the integrator correctly produced a 15 Vp signal oscillating at 1k Hertz. The oscillator and integrator outputs are shown side by side on the oscilloscope display Figure 6.

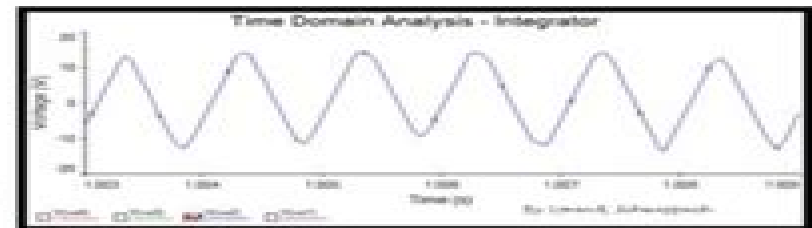


Figure 5: Multisim transient analysis results of integrator output.

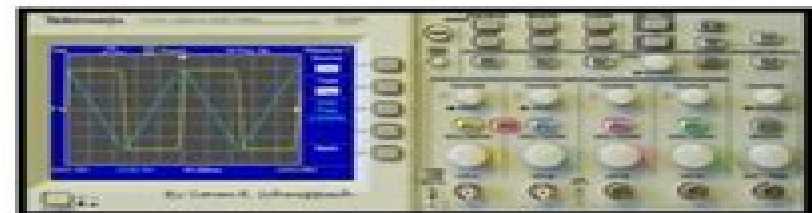


Figure 6: Oscilloscope results of integrator output (blue) and oscillator output yellow.

### C. PART 3 – STEP GENERATOR AND RESET CIRCUIT

The step generator took in the 1k Hertz oscillator square wave output and generated a rising step pattern. The number of steps produced was dependent upon the input voltage provided to the reset circuit (comparator). The two diodes (D1 and D2) allowed rectification of the oscillator output and ensured that the step generators output increased each cycle of the oscillator until finally reset by the reset circuit.

The reset circuit compared the step generators output with an externally provided (via voltage divider) bias to allow the resetting of transistor Q2. When transistor Q2 is conducting it is in the reset condition, and provides a path for current around capacitor C4 (not yet shown). When C4 discharges the output and input of the step generator equalize resetting the step generator.

### I. CALCULATIONS:

No calculations were required, because the step generator and reset circuitry was provided by the instructor.

However, modifications to the step generator and reset circuits were required to component availability (capacitors). Finally the instructors design was improved by using variable resistors (potentiometers) in Multisim,

# Power Electronics Lab Manual

**Philip T. Krein**



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### **Table of Contents Power Electronics Lab Manual**

1. Understanding the eBook Power Electronics Lab Manual
  - The Rise of Digital Reading Power Electronics Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Power Electronics Lab Manual
  - 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 Power Electronics Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Power Electronics Lab Manual
  - Personalized Recommendations

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