



## TRANSMISSION LINE EXPERIMENT

### Aims:

- To study transmission lines and determine their parameters.
- To gain important concepts such as standing waves, reflection coefficient and attenuation.

### Objectives:

- To calculate wave velocity and compare it against theoretical value.
- To calculate the permittivity of the cable insulation.
- To calculate the cable wavelength, phase constant and attenuation constant.
- To calculate reflection coefficient and voltage standing wave ratio (VSWR).

### 1. Equipment:

The experiment consists of a signal generator, an oscilloscope and a transmission line box. The overall transmission line length is 32 m and tapping is provided at every 1m length which will be used to observe wave characteristics at different lengths. Several terminations at different values are provided together with two X10 probes and BNC adaptors. The transmission line is RG174AU coaxial cable with 50 $\Omega$  characteristic impedance and 101 pF/m per-unit-length capacitance.

### 2. Experiment:

#### 2.1. Line characteristics

##### a) Terminal reflections

- i. Set the output impedance of the signal generator to 50 $\Omega$  and connect it to the transmission line box at "0m" terminal via a BNC TEE adaptor. Connect the other end of the TEE adaptor to Ch.1 of the Scope.
- ii. Output pulse wave of 1 MHz, 10ns width, 10 V p-p and minimum edge time ( $\sim 4$  ns) from the signal generator.
- iii. Terminate the transmission line in a matched load of 50 $\Omega$  and observe the reflections on Ch.1 of the scope.
- iv. Replace the matched load with open and short circuits respectively and in each case observe the reflections.

##### b) Travelling wave speed and cable relative permittivity

- v. For the last case observe the propagation delay between the input and reflected pulse and determine the wave velocity in the transmission line.
- vi. From the given values for characteristic impedance and capacitance calculate the theoretical value for the wave velocity and compare it against the experimental value. The relevant formulas are given in the Appendix.
- vii. Use these equations to calculate the relative permittivity  $\epsilon_r$  of the cable insulation, the wavelength and phase coefficient.

#### 2.2. Reflection coefficient:

- i. Keep the same circuit connections set in 2.1, at the line end (32m), change the terminations (27 $\Omega$ , 100 $\Omega$ , open circuit, short circuit) and measure the input and

# Networks And Transmission Lines Lab Manual

**AN Whitehead**



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pandemic has forced virtual technologies to lead the way in order to continue teaching and learning for students and faculty around the world Universities and teachers had to quickly adjust everything from their curriculum to their teaching styles in order to adapt to an online learning environment Online learning is a complex issue and one that comes with both challenges and opportunities there is plenty of room for growth and further study is required to better understand how to improve online education The Handbook of Research on Developing a Post Pandemic Paradigm for Virtual Technologies in Higher Education is a comprehensive reference book that presents the testimonials of teachers and students with various degrees of experience with distance learning and their utilization of current virtual tools and applications for learning as well as the impact of these technologies and their potential future use With topics ranging from designing an online learning course to discussing group work in an online environment this book is ideal for teachers educational software developers IT consultants instructional designers administrators professors researchers lecturers students and all those who are interested in learning more about distance learning and all the positive and negative aspects that accompany it **IT Essentials**, 2014

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### **Table of Contents Networks And Transmission Lines Lab Manual**

1. Understanding the eBook Networks And Transmission Lines Lab Manual
  - The Rise of Digital Reading Networks And Transmission Lines Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Networks And Transmission Lines 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 Networks And Transmission Lines Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Networks And Transmission Lines Lab Manual
  - Personalized Recommendations
  - Networks And Transmission Lines Lab Manual User Reviews and Ratings

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