



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 Ω 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 Ω 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 (~ 4 ns) from the signal generator.
- iii. Terminate the transmission line in a matched load of 50 Ω 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 ϵ_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 Ω , 100 Ω , open circuit, short circuit) and measure the input and

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Mark Steyvers



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Microwave and Optical Communications Lab Manual Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007) Mike Meyers, Jonathan S. Weissman, 2018-07-13 Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting *Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006)* Mike Meyers, Jonathan S. Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors U.S. Government Research Reports, 1963 *Scientific and Technical Books and Serials in Print*, 1989 *Electronic and Electrical Engineering; Selected Bibliographic Citations Announced in U.S. Government Research and Development Reports, 1966* United States. Office of State Technical Services, 1968 **Handbook of Research on Developing a Post-Pandemic Paradigm for Virtual Technologies in Higher Education** Loureiro, Sandra Maria Correia, Guerreiro, João, 2021-06-25 The COVID 19 pandemic has forced companies institutions citizens and students to rapidly change their behaviors and use virtual technologies to perform their usual working tasks Though virtual technologies for learning were already present in most universities the

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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Energy Research Abstracts ,1990 *Scientific and Technical Aerospace Reports* ,1992 **Electronics World** ,1969 *Selected Water Resources Abstracts* ,1986 *U.S. Government Research & Development Reports* ,1966

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Forthcoming Books Rose Army, 1999 *Monthly Index of Russian Accessions* Library of Congress. Processing

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