



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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JS Bruner



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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 **EEE. ,1969 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

Scientific and Technical Books and Serials in Print ,1989 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

The Routledge Companion to Global Internet Histories Gerard Goggin, Mark McLelland, 2017-02-17 The Routledge Companion to Global Internet Histories brings together research on the diverse Internet histories that have evolved in different regions language cultures and social contexts across the globe While the Internet is now in its fifth decade the understanding and formulation of its histories outside of an anglophone framework is still very much in its infancy From Tunisia to Taiwan this volume emphasizes the importance of understanding and formulating Internet histories outside of the anglophone case studies and theoretical paradigms that have thus far dominated academic scholarship on Internet history Interdisciplinary in scope the collection offers a variety of historical lenses on the development of the Internet as a new communication technology seen in the context of older technologies as a new form of sociality read alongside previous technologically mediated means of relating and as a new media vehicle for the communication of content

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Yang is a professor at the Department of Electronic Engineering Shanghai Jiao Tong University Maode Ma is an associate professor at the School of Electrical Electronic Engineering Nanyang Technological University

IT Essentials Cisco Networking Academy, Kathleen Czurda-Page, Laura Kier, 2013 IT Essentials PC Hardware and Software Companion Guide Fifth Edition IT Essentials PC Hardware and Software Companion Guide Fifth Edition supports the Cisco Networking Academy IT Essentials PC Hardware and Software version 5 course The course is designed for Cisco Networking Academy students who want to pursue careers in IT and learn how computers work how to assemble computers and how to safely and securely troubleshoot hardware and software issues As CompTIA Approved Quality Content the course also helps you prepare for the CompTIA A certification exams 220 801 and 220 802 CompTIA A 220 801 covers the fundamentals of computer technology installation and configuration of PCs laptops related hardware and basic networking CompTIA A 220 802 covers the skills required to install and configure PC operating systems and configure common features such as network connectivity and email for Android and Apple iOS mobile operating systems Students must pass both exams to earn the CompTIA A certification The features of the Companion Guide are designed to help you study and succeed in this course

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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 Modernization of Electric Power Systems Ahmed F. Zobaa, Shady H.E. Abdel Aleem, 2023-05-31 This timely book examines the significant challenges and possible solutions for enabling efficient modernization of electric power systems It addresses rapidly changing electricity infrastructure needs and technical requirements and provides a practical introduction to the past present and future of energy efficiency and power quality concepts The book also looks at recent developments in custom power conditioners that help improve the performance of transmission and distribution systems ensure reliability and reduce costs Modernization of Electric Power Systems is a valuable resource for practicing engineers students and researchers interested in exploring and implementing energy

efficiency and power quality in modern energy systems with renewables *Subject Guide to Books in Print* ,1983

Application of Image Processing and Knowledge Reasoning in the Construction of New Power System Fuqi Ma,Bo Wang,Hengrui Ma,Yikui Liu,Rong Jia,2025-03-12 The power system is undergoing changes in terms of grid formation technology foundation and operational characteristics which are placing higher requirements on the perception and cognitive capabilities of the current system This necessitates the urgent promotion of new power systems construction incorporating digital and intelligent technologies to serve the energy transformation AI plays a crucial role as one of the key driving technologies for the digital transformation of energy It encompasses an exclusive AI formed by the fusion of relevant theories technologies and methods of AI with the physical laws technologies and knowledge of power systems From the perspective of perception and cognition the exclusive AI primarily consists of two research directions 1 The application of perceptual intelligent technologies such as image recognition in scenarios like equipment defect recognition and construction site safety monitoring 2 The application of cognitive intelligence technologies such as knowledge question answer and knowledge graph in scenarios like power knowledge retrieval and intelligent question answer By leveraging power production knowledge and AI technology intelligent perception and cognition of the operational status can effectively meet the urgent needs of the power industry development This Research Topic focuses on the application of image processing and knowledge reasoning in the power industry It utilizes multi source power industry image data employing image intelligent processing deep semantic knowledge mining and other technical methods to achieve intelligent perception and cognition of the power system s operation status The goal of this Research Topic is to enhance the digital and intelligent level of the power system and propel the construction and development of the new power system to a new level Forthcoming Books Rose Arny,1999

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