

TRANSMISSION LINES AND WAVEGUIDES**UNIT I - TRANSMISSION LINE THEORY****1. Define – Characteristic Impedance**

[M/J–2006, N/D–2006]

Characteristic impedance is defined as the impedance of a transmission line measured at the sending end. It is given by

$$Z_0 = \sqrt{Z/Y}$$

where $Z = R + j\omega L$ is the series impedance

$Y = G + j\omega C$ is the shunt admittance

2. State the line parameters of a transmission line.

The line parameters of a transmission line are resistance, inductance, capacitance and conductance.

Resistance (R) is defined as the loop resistance per unit length of the transmission line. Its unit is ohms/km.

Inductance (L) is defined as the loop inductance per unit length of the transmission line. Its unit is Henries/km.

Capacitance (C) is defined as the shunt capacitance per unit length between the two transmission lines. Its unit is Farad/km.

Conductance (G) is defined as the shunt conductance per unit length between the two transmission lines. Its unit is mhos/km.

3. What are the secondary constants of a line?

The secondary constants of a line are

- i. Characteristic impedance, $Z_0 = \sqrt{Z/Y}$
- ii. Propagation constant, $\gamma = \alpha + j\beta$

4. Why the line parameters are called distributed elements?

The line parameters R, L, C and G are distributed over the entire length of the transmission line. Hence they are called distributed parameters. They are also called primary constants.

The infinite line, wavelength, velocity, propagation & Distortion line, the telephone cable

5. What is an infinite line?

[M/J–2012, A/M–2004]

An infinite line is a line where length is infinite. For an infinite line, the input impedance is equal to its characteristic impedance. A finite line, which is terminated by characteristic impedance is also called infinite line.

6. Define – Propagation Constant

[N/D–2007, M/J–2009]

Propagation constant is defined as the natural logarithm of the ratio of the sending end current or voltage to the receiving end current or voltage of a line. It gives the manner in which the wave is propagated along the line. It specifies the variation of voltage and current in the line as a function of its length.

7. How does frequency distortion occur in a line?

[M/J–2007]

When signals having many frequency components are transmitted along a line, different frequency components have different attenuations. Hence the receiving end waveform will not be identical with the input waveform at the sending end. This type of distortion is called frequency distortion.

8. What is an equalizer in transmission line?

[A/M–2005]

An equalizer is a network whose frequency and phase characteristics are adjusted to the inverse the line. This results in a uniform frequency response over the desired frequency band. Hence the attenuation is equal for all the frequencies.

Ec2305 Transmission Line And Wave Guide

David F. Noble



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Transmission Lines & Wave Guides B. Somanathan Nair, *Transmission Lines And Waveguide* Uday A. Bakshi, Ajay V. Bakshi, 2008 Transmission Line Theory Different types of transmission lines Definition of characteristic impedance The transmission line as a cascade of T Sections Definition of propagation constant General solution of the transmission line The two standard forms for voltage and current of a line terminated by an impedance Physical significance of the equation and the infinite line The two standard forms for the input impedance of a transmission line terminated by an impedance Meaning of reflection coefficient Wavelength and velocity of propagation Waveform distortion Distortionless transmission line The telephone cable Inductance loading of telephone cables Input impedance of lossless lines Reflection on a line not terminated by Z_0 Transfer impedance Reflection factor and reflection loss T and section equivalent to lines The Line at Radio Frequencies Standing waves and standing wave ratio on a line One eighth wave line The quarter wave line and impedance matching The half wave line The circle diagram for the dissipationless line The Smith chart Application of the Smith chart Conversion from impedance to reflection coefficient and vice versa Impedance to admittance conversion and viceversa Input impedance of a lossless line terminated by an impedance Single stub matching and double stub matching Guided Waves Waves between parallel planes of perfect conductors Transverse electric and transverse magnetic waves Characteristics of TE and TM Waves Transverse electromagnetic waves Velocities of propagation Component uniform plane waves between parallel planes Attenuation of TE and TM waves in parallel plane guides Wave impedances Rectangular Waveguides Transverse magnetic waves in rectangular wave guides Transverse electric waves in rectangular waveguides Characteristic of TE and TM waves Cut off wavelength and phase velocity Impossibility of TEM waves in waveguides Dominant mode in rectangular waveguide Attenuation of TE and TM modes in rectangular waveguides Wave impedances Characteristic impedance Excitation of modes Circular Wave Guides and Resonators Bessel functions Solution of field equations in cylindrical co ordinates TM and TE waves in circular guides Wave impedances and characteristic impedance Dominant mode in circular waveguide Excitation of modes Microwave cavities Rectangular cavity resonators Circular cavity resonator Semicircular cavity resonator Q factor of a cavity resonator for TE₁₀₁ mode **Transmission Lines and Waveguides** Lamont V. Blake, 1969 **Transmission Lines and Wave Propagation** Philip Cooper Magnusson, 1965 Transmission Lines & Waveguide Ganesan, 2010 Transmission Lines and Wave Propagation Philip C. Magnusson, Andreas Weisshaar, Vijai K. Tripathi, Gerald C. Alexander, 2017-07-12 Transmission Lines and Wave Propagation Fourth Edition helps readers develop a thorough understanding of transmission line behavior as well as their advantages and limitations Developments in research programs and concepts since the first edition presented a demand for a version that reflected these advances Extensively revised the fourth edition of this bestselling text does just that offering additional formulas and expanded discussions and references in addition to a chapter on coupled transmission lines What Makes This Text So Popular

The first part of the book explores distributed circuit theory and presents practical applications Using observable behavior such as travel time attenuation distortion and reflection from terminations it analyzes signals and energy traveling on transmission lines at finite velocities The remainder of the book reviews the principles of electromagnetic field theory then applies Maxwell's equations for time varying electromagnetic fields to coaxial and parallel conductor lines as well as rectangular circular and elliptical cylindrical hollow metallic waveguides and fiber optic cables This progressive organization and expanded coverage make this an invaluable reference With its analysis of coupled lines it is perfect as a text for undergraduate courses while graduate students will appreciate it as an excellent source of extensive reference material This Edition Includes An overview of fiber optic cables emphasizing the principle types their propagating modes and dispersion Discussion of the role of total internal reflection at the core cladding interface and the specific application of boundary conditions to a circularly symmetrical propagating mode A chapter on coupled transmission lines including coupled line network analysis and basic crosstalk study More information on pulse propagation on lines with skin effect losses A freeware program available online Solutions manual available with qualifying course adoption Transmission Lines, Waveguides, and Smith Charts Richard L. Liboff, G. Conrad Dalman, 1985 **Transmission Lines and Waveguides** Lamont V. Blake, 1969 Fields, Waves and Transmission Lines M. Benson, 2012-12-06 One of us FAB published a book Problems in Electronics with Solutions in 1957 which became well established and ran to five editions the last revised and enlarged edition appearing in 1976 When the first edition was written it covered almost the complete undergraduate electronics courses in engineering at universities One book at a price students can afford can no longer cover an undergraduate course in electronics It has therefore been decided to produce a book covering one important section of such a course using the experience gained and a few problems from previous editions of Problems in Electronics with Solutions The book is based largely on problems collected by us over many years and given to undergraduate electronic and electrical engineers Its purpose is to present the problems together with a large number of their solutions in the hope that it will prove valuable to undergraduates and other teachers It should also be useful for Master's degree students in electronic and electrical engineering and physics research workers engineers and scientists in industry and as a reference source **Transmission Lines, Antennas and Wave Guides** Alexander Holbrook Wing, 1965 **Transmission Lines & Wave Guides** Bs Nair, 2008-01-01 The book widely discusses the principle and analyses involved in transmission lines in general and wave guides in particular The book begins with introduction to Transmission line theory discussing various types of distortions reflection filters and continues with the transmission line at radio frequencies and related parameters Guided waves are discussed in different modes like TE TM and TEM before ending up with detailed explanations on different types of wave guides like rectangular circular cylindrical coaxial lines and components like cavity resonators Features Lucid and simple to understand Elaborate explanation on the analysis supported with lot of diagrams Large number of problems to illustrate the

theory Special attention given to problems using Smith Chart Appendices on filters and Maxwell's equations Contents Transmission line theory Transmission line at radio frequencies Guided waves Wave guides Theory of Filters m derived filters Maxwell's Equations **Circuit Properties of Dispersive Coupled Transmission Lines and Waveguides** David F. Noble,1971 The frequency domain behavior of lossless uniform dispersive coupled transmission line systems and of lossless waveguides uniform in the direction of propagation but not necessarily in the transverse direction are investigated Some frequency domain properties of the propagation constants of such systems implied by losslessness and uniformity are explored and ways of approximating waveguide propagation constants are developed Author **Transmission Lines and Wave Guides** Nathaniel Herman Frank,Massachusetts Institute of Technology. Radiation Laboratory,1942

Transmission Lines and Waveguides Mr. Rohit Manglik,2024-03-15 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 **Transmission Lines and Wave Guides** Cleveland Institute of Electronics,1962 [Transmission Line Theory - Waveguides - Coaxial Lines - Strip Transmission Lines - Filters and Cavities](#),1971 **Transmission Lines & Waveguides** Uday A. Bakshi,Late Ajay V. Bakshi,2020-11-01 The book is written for an undergraduate course on the transmission lines and waveguides It provides comprehensive coverage of four terminal networks filters transmission lines and various types of waveguides The book starts with explaining the symmetrical and asymmetrical four terminal networks which form the basis of filters Then book provides the detailed discussion of various types of filters The discussion of composite filters and crystal filter is also included in the book The book covers the transmission line parameters in detail along with reflection on a line reflection loss and reflection factor The chapter on transmission line at radio frequency includes parameters of line at high frequency standing waves standing wave ratio single stub matching double stub matching and Smith chart The book covers the various aspects of guided waves between parallel planes It also provides the discussion of rectangular and circular waveguides At the end book incorporates the discussion of resonators Each chapter provides the detailed explanation of the topic practical examples and variety of solved problems The explanations are given using very simple and lucid language All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting [Electronic Transmission Technology](#) William Sinnema,1979 *The Design of Transmission Lines and Waveguide Structures Using the Maximum Principle* Jerry Don Burchfiel,MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB.,1968 A distributed parameter maximum principle provides the basis for design of optimal lossless impedance matching structures Given an arbitrary wide band source at $z = l$ and an arbitrary load at $z = 0$ the optimization procedure synthesizes a uniform cross section dielectric loaded

waveguide or transmission line of length l which maximizes the real power delivered to the load This optimization is performed subject to constraints on the filler material $\mu_z \mu_{\text{sub } 0}$ and ϵ_z is in $\epsilon_{\text{sub } 1} \epsilon_{\text{sub } 2} \epsilon_{\text{sub } n}$ The solution is easily implemented as the filler consists of successive intervals of readily available dielectric materials An iterative numerical procedure for solving the split boundary function necessary conditions is given and a number of typical solutions for transmission line and waveguide couplers are presented In the examples studied the performance obtained using only $\epsilon_{\text{sub } \text{MIN}}$ and $\epsilon_{\text{sub } \text{MAX}}$ was within 0.2 percent of that obtained using a continuum of dielectric constants $\epsilon_{\text{sub } \text{MIN}} \epsilon_{\text{sub } \text{MAX}}$ Author Transmission Lines, Antennas and Wave Guides. By Ronold W. P. King ... Harry Rowe Mimno ... Alexander H. Wing. (Editors: H. E. Clifford and A. H. Wing.). Harry Ellsworth CLIFFORD (and WING (Alexander Holbrook)), Alexander Holbrook WING, 1945

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