

# John D Ryder Transmission Lines And Waveguides

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#### **BEC503 - TRANSMISSION LINES, NETWORKS AND WAVEGUIDES**

BEC503 - TRANSMISSION LINES, NETWORKS AND WAVEGUIDES Credits and Contact Hours 3 and 45 Course Coordinator's Name Ms Raji Pandurangan Text Books and References Text Book: 1 John D Ryder, "Networks lines and fields", Prentice Hall of India, New Delhi, 2005 References:

#### **EC403 TRANSMISSION LINES AND NETWORKS**

and short circuit lines UNIT - IV Transmission Line at Radio Frequencies: Line with any termination- Input impedance, input impedance of a lossless line, Reflection coefficient- Standing wave ratio Ultra high frequency lines- Characteristics John D Ryder, "Network lines and fields", 2nd ed, PHI

Learning, 2005 4 UA Bakshi & AV

#### **4.1 NETWORK, FILTERS AND TRANSMISSION LINES**

41 NETWORK, FILTERS AND TRANSMISSION LINES L T P 4 - 3 RATIONALE The study of network, filters and transmission lines leads to understanding of line communication, Network Lines and Fields by John D Ryder; PHI, New Delhi 2 Network Filters and Transmission Lines by AK Chakarvorty; Dhanpat Rai & Co Publication 3 Network Analysis by Van

##### **Transmission Lines**

Transmission lines may also be dispersive, which means the propagation velocity on the line is not constant with frequency For example the frequency components of square wave (re-call odd harmonics only) each propagate at a different velocity, meaning the waveform becomes smeared Dispersion is very important to high speed digital transmission

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##### **EM WAVES AND TRANSMISSION LINES - Gayatri Vidya ...**

EM WAVES AND TRANSMISSION LINES Course Code: 13EC1111 L T P C 4003 Course Educational Objectives: To introduce the student to the fundamental theory and concepts of electromagnetic waves and transmission lines, and their practical applications, to study the propagation, reflection, and transmission of John D Ryder, "Networks, Lines and

##### **UNIT I TRANSMISSION LINE THEORY**

EC1305 TRANSMISSION LINES AND WAVEGUIDES 3 1 0 100 JDryder "Networks, Lines and Fields", PHI, New Delhi, 2003 Ramo, Whineery and Van Duzer: "Fields and Waves in Communication Electronics" John Wiley, 2003 2 David MPOzar: Microwave Engineering - 2nd Edition - John Wiley 3 David KCheng,Field and Waves in

##### **EM WAVES AND TRANSMISSION LINES - Gayatri Vidya ...**

EM WAVES AND TRANSMISSION LINES Course Code: 15EC1107 L T P C 3104 Course Outcomes At the end of the course the student will be able to CO 1 Specify the "constitutive relationships" for fields and understand why they are required John D Ryder, "Networks, Lines and Fields

##### **S.No CONTENTS NO UNIT - I TRANSMISSION LINE THEORY**

EC6503 TRANSMISSION LINES AND WAVEGUIDES SCE Dept of ECE SNo CONTENTS PAGE NO UNIT - I TRANSMISSION LINE THEORY 11 General theory of Transmission lines 01 12 The Transmission line, general solution & the infinite line 03 John D Ryder, " Networks, lines and fields", 2nd Edition, Prentice Hall India, 2010 References:

##### **Vel Tech High Tech Dr.Ranagarajan Dr.Sakunthala ...**

EC6503 TRANSMISSION LINES AND WAVE GUIDES L T P C 3 1 0 4 OBJECTIVES: To introduce the various types of transmission lines and to discuss the losses associated To give thorough understanding about impedance transformation and matching John D Ryder, "Networks, lines and

fields”, 2nd Edition, Prentice Hall India, 2010 REFERENCES 1 EC

### **Lecture 7: Transmission Lines**

Dispersionless Transmission Lines Because  $L_0$  and  $C_0$  do not depend on frequency for a superconductor, the phase velocity is independent of frequency So that a pulse will propagate down a superconducting transmission line without dispersing Also, the amount of attenuation is extremely small, since this is due to  $R_0$

### **96 3.2 HIGH POWER PULSE 1100ELING OF COAXIAL ...**

The analysis of coaxial transmission lines is commonly based upon the incremental section model as shown in Fig 1 The self inductance of the center conductor is  $L_1$  outer sheath  $L_2$  and the mutual is  $M_{12}$  • The lumped equivalent capacitance of the element is  $C$  Also

### **ELECTROMAGNETIC THEORY AND TRANSMISSION LINES**

Demonstrate the ability to compute various parameters for transmission lines using smith chart and classical theory COURSE LEARNING

OUTCOMES (CLOs): GSashibushana Rao -Electromagnetic Field theory and Transmission Lines, Wiley India, 2013 4 John D Ryder,-Networks, Lines and Fields, PHI, 2nd Edition, 1999 3 | Page

### **Detailed syllabi of Bachelor of Computer Science ...**

transmission lines [5L] Suggested Readings: 1 Network Analysis by MEVan Valkenburg, Prentice Hall India, 2 Schaum’s outline of Electric Circuits by Mahmood Nahvi & Joseph Edminister 3 Network Lines and Fields by John D Ryder, PHI 4 Network Theory by D...

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