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EC6503 - TRANSMISSION LINES AND WAVEGUIDES. AMSEC/ECE Prepared By : Mr.R.Vembu, AP/ECE. 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.

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EC6503 - TRANSMISSION LINES AND WAVE GUIDES. INTRODUCTION TO TRANSMISSION LINE THEORY. Transmission Lines and Waveguides. A TRANSMISSION LINE is a device designed to guide electrical energy from one point to another. It is used, for example, to transfer the output rf energy of a transmitter to an antenna.

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Derive the expression for the input impedance of a transmission line Hence obtain the input impedance for a loss less line (ec6503 transmission lines and wave guides important questions) 9. A transmission line operating at  $10^6$  rad/s has  $\alpha = 8$  dB/m,  $\beta = 1$  rad/m. and  $z_0 = 60 + j40$  ohms, and is 2meter long.

*EC6503 Transmission Lines and Wave Guides Important questions*

EC6503 Transmission lines and Waveguides Department of ECE 2018 - 2019 2 9. Find the characteristic impedance of the line at 1600 Hz if  $Z_{oc} = 750 - j30 \Omega$  and  $Z_{sc} = 600 + j20 \Omega$ ;  $Z_{oc} Z_{sc} = 750 - j30 \Omega \times 600 + j20 \Omega = 0.825 \times 10^6 \Omega$ .

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Semester V Transmission Lines And EC6503 - Transmission Lines and WaveguidesV Semester - Question Bank Department of Electronics and Communication Engineering5 10. Consider a 30 m long lossless transmission line with a characteristic impedance of  $50 \Omega$  operating at 2 MHz. The line is terminated in a load impedance of  $(60 + j40) \Omega$ .

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antenna is mounted on a mast. ec6503 transmission lines and wave guides notes A transmission line is used to connect the transmitter and the antenna. The transmission line has a single purpose for both the transmitter and the antenna.

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Description. Wave travel along a standard, two conductor transmission line is of the TEM (Transverse Electric and Magnetic) mode, where both fields are oriented perpendicular to the direction of travel. TEM mode is only possible with two conductors and cannot exist in a wave guide. Download EC6503 Transmission Lines and Wave Guides - Nov/Dec 2017 Regulation 2013 Question Paper- Click Here.

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