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## **COMMUNICATIONS-ELECTRONICS FUNDAMENTALS Wave Propagation**

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All electromagnetic waves consist of electric and magnetic fields propagating in the same direction of travel, but perpendicular to each other. Along the length of a normal transmission line, both electric and magnetic fields are perpendicular (transverse) to the direction of wave travel.

## **Waveguides | Transmission Lines | Electronics Textbook**

The line-of-sight propagation will not be smooth if there occurs any obstacle in its transmission path. As the signal can travel only to lesser distances in this mode, this transmission is used for infrared or microwave transmissions. Ground Wave Propagation. Ground wave propagation of the wave follows the contour of earth.

## **Antenna Theory - Types of Propagation - Tutorialspoint**

Transmission lines may also be dispersive, which means the propagation

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velocity on the line is not constant with frequency. For example, the frequency components of square wave (recall odd harmonics only) each propagate at a different velocity, meaning the waveform becomes smeared. Dispersion is very important to high speed digital transmission (fiber optic and wired networks alike). The longer the line, the greater the impact.

## **Transmission Lines**

NEETS MODULE 10-Wave Propagation,  
Transmission Lines, and Antennas

UNCLASSIFIED 1-1 UNCLASSIFIED 1

WAVE PROPAGATION LEARNING

OBJECTIVES After you finish this chapter, you should be able to do the following:

1. State what wave motion is, define the terms reflection, refraction, and diffraction, and describe the Doppler effect.
- 2.

## **Navy Electricity and Electronics Training Series**

TRANSMISSION LINES 181 where the

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propagation constant is  $\gamma = \alpha + j\beta = \rho (R + j\omega L)(G + j\omega C)$ . (4.20) In Equation (4.20)  $\alpha$  is called the attenuation coefficient and has units of Nepers per meter; and  $\beta$  is called the phase-change coefficient, or phase constant, and has units of radians per meter (expressed as rad/m or radians/m).

## 4.5 Modeling of Transmission Lines

Experimental setup for transmission line measurements: PDF unavailable: 10: Applications of transmission lines: PDF unavailable: 11: Applications of transmission lines-II: PDF unavailable: 12: ... Wave propagation and phase velocity: PDF unavailable: 27: Power flow and Poynting vector: PDF unavailable: 28: Surface current and power loss in a ...

## NPTEL :: Electronics & Communication Engineering ...

Propagation Constant of a Transmission line. The propagation constant for any conducting lines (like copper lines) can

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be calculated by relating the primary line parameters.  $\gamma = \sqrt{ZY}$   
Where,  $Z = R + i\omega L$  Series impedance of line per unit length.  
 $Y = G + i\omega C$  The shunt admittance of line per unit length.

## **Propagation Constant - Definition, Derivation, Formula**

Any disturbance on a Travelling Waves on Transmission Lines or system such as sudden opening or closing of line, a short circuit or a fault results in the development of overvoltages or overcurrents at that point. This disturbance propagates as a travelling wave to the ends of the line or to a termination, such as, a sub-station.

## **Travelling Waves on Transmission Lines | EEGGUIDE**

A transmission line connects a generator to a load – a two port network  
Transmission lines include (physical construction):

- Two parallel wires
- Coaxial cable
- Microstrip line
- Optical



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fiber • Waveguide (very high frequencies, very low loss, expensive) • etc. Types of Transmission Modes

## **INTRODUCTION TO TRANSMISSION LINES**

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### **Transmission Lines And Waveguide - A.V.Bakshi U.A.Bakshi ...**

Wave propagation—voltage and current—in transmission lines is usually handled by employing phasor analysis. In this context, it is crucial to understand that, in general, there are two waves traveling in opposite directions and that their relative phase changes along the line. Consequently, a standing wave is produced for voltage and current.

### **Teaching Transmission Line**

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## **Propagation and Plane Wave ...**

For a transmission line, the Heaviside condition of the telegrapher's equation tells us that the wavenumber must be proportional to frequency for the transmission of the wave to be undistorted in the time domain. This includes, but is not limited to, the ideal case of a lossless line.

## **Propagation constant - Wikipedia**

A transmission line is drawn as two black wires. At a distance  $x$  into the line, there is current  $I(x)$  travelling through each wire, and there is a voltage difference  $V(x)$  between the wires. If the current and voltage come from a single wave (with no reflection), then  $V(x) / I(x) = Z_0$ , where  $Z_0$  is the characteristic impedance of the line.

## **Transmission line - Wikipedia**

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