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Equation ...**

In electrical engineering, a transmission line is a specialized cable or other structure designed to conduct electromagnetic

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The term applies when the conductors are long enough that the wave nature of the transmission must be taken into account. This applies especially to radio-frequency engineering because the short wavelengths

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means wave phenomena arise  
over very short distances.

However, the theory of  
transmission lines was historically  
developed to explain pheno

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Notes 1 B. I. Neelgar, ECE, GMRIT

1.2 VECTOR ALGEBRA With the definition of vectors and vector fields now accomplished, one can now proceed to define the rules of vector arithmetic, vector algebra, and (later) vector calculus. Some

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of the rules will be similar to those of scalar algebra, some will differ slightly, and some will be ...

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This is the case, for example, of

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transmission by antennas. The second, one that we will discuss here, is the propagation of energy through a defined structure that physically connects the generator and the load. This is the general definition of a transmission line. We will view the transmission

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line, the generator, and the load  
in general terms.

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Week 8: Losses in propagation  
and propagation constant,

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Polarization (the only difference  
from transmission lines) a) Linear,  
circular, elliptical Week 9:

Reflection and transmission at  
interfaces (analogous to  
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lines, in addition to 18,500 miles of transmission lines.<sup>11</sup> Many commentators blame the utility's "mismanagement of, chronic

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underinvestment in, and poor planning around its electricity system” for contributing to the prevalence of wildfires and associated risks to the grid. 12 In fact,

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Because transmission lines support standing waves, and force these waves to possess nodes and antinodes according to the type of termination impedance at the load end, they also exhibit resonance at

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frequencies determined by  
physical length and propagation  
velocity.

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Resonance | Transmission  
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into the study transmission lines

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having voltage and current along the line in terms of 1D traveling waves. The transmission line is a two-port circuit used to connect a generator or transmitter signal to a receiving load over a distance. In simple terms power transfer takes place. Sending-end port A ~

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A' B B' Transmission line  
Generator circuit Load circuit

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...

The equation shows that a part of the voltage and current wave is reflected back if the end of a transmission line is not

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terminated by an impedance that equals. The same effect occurs in the middle of a transmission line, if its characteristic impedance changes.

**Waves on Transmission Lines**

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Theory Different types of transmission lines, Definition of characteristic impedance, The transmission line as a cascade of T-Sections,...

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All two-conductor transmission lines either support a TEM wave or a wave very closely approximated as TEM. An important property of TEM waves is that  $E$  is uniquely related to

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Waves By uniquely related to E.  
L VEd L I Hd This reduces analysis  
of transmission lines to just Vand  
I. This makes analysis much  
simpler

## **Lecture -- Transmission Line Equations**

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The magnitudes of the voltage and current along the line at any distance  $z$  away from the source are [1]: (1a) (1b) where denotes the amplitude of the sinusoidal voltage wave,  $\beta$  is the phase

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constant of the wave and the load reflection coefficient is given by  
(2) In the circuit shown in Figure 1, we have  $Z_L = R_L$ . Now, consider the same transmission line but with the distance measured from the ...

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