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Frequency  $2 F \omega \pi = 1.4$ . Wave Velocity --  $V$  For A Wave Velocity  $V$ , Wavelength  $\lambda$  And Frequency  $F$ :  
 $Vf = \lambda$   
 $2 2 V \omega \pi \pi \beta =$  Substituting In For  $\omega$  Using  
 $\beta \omega = \pm lc$ . (1.3) We Obtain  $1 V LC =$  (1.6) Note: If The Device Is Air Cored, Then The Veloci  
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Electromagnetic Fields And Waves Z Y R X Figure 6.1. Rectangular, Cylindrical, And Spherical Coordinate Systems. The Cross Product Of These Vectors Is  $A \times B = (A_2 B_3 - A_3 B_2)x^1 + (A_3 B_1 - A_1 B_3)x^2 + (A_1 B_2 - A_2 B_1)x^3$ , (6.3) Where  $x^1$  (pronounced "x Hat") Is A Unit Vector In The  $x_1$  Direction. The ... 3th, 2024

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