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Frequency  $2 F \omega \pi = 1.4$ . Wave Velocity -- V For

A Wave Velocity  $V$ , Wavelength  $\lambda$  And Frequency  $F$ :  
 $Vf = \lambda f$   $\omega = 2\pi f$   $\beta = \frac{\omega}{V}$  = Substituting In For  $\omega$  Using  
 $\beta\omega = \pm \frac{1}{c}$ . (1.3) We Obtain  $\frac{1}{V} = \frac{\beta}{\omega}$  LC = (1.6) Note: If The  
 Device Is Air Cored, Then The Velocity Is  $V = \frac{1}{\sqrt{\mu_0 \epsilon_0}}$  Jan 11th, 2024.  
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 $E(r,t)$  And The Magnetic Induction field  $B(r,t)$ . The

Vector  $\mathbf{r}$  Denotes The Location In Space Where The fields Are Evaluated. Similarly,  $\mathbf{t}$  Apr 18th, 2024  
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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  $\mathbf{A} \times \mathbf{B} = \begin{vmatrix} \hat{x} & \hat{y} & \hat{z} \\ A_1 & A_2 & A_3 \\ B_1 & B_2 & B_3 \end{vmatrix} = (A_2B_3 - A_3B_2)\hat{x} + (A_3B_1 - A_1B_3)\hat{y} + (A_1B_2 - A_2B_1)\hat{z}$ , (6.3) Where  $\hat{x}$  (pronounced "x Hat") Is A Unit Vector In The  $x$  Direction. The ... Jan 6th, 2024

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