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Frequency  $2 F \omega \pi = 1.4$ . Wave Velocity --  $V$  For A Wave Velocity  $V$ , Wavelength  $\lambda$  And Frequency  $F$ :  $Vf = \lambda$   $2 \omega \pi \beta =$  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 1th, 2024

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56 Electromagnetic Fields And Waves Z Y R X Figure 6.1. Rectangular, Cylindrical, And Spherical Coordinate Systems. The Cross Product Of These Vectors Is  $\vec{A} \times \vec{B} = \hat{x}^1 \hat{x}^2 \hat{x}^3 \begin{vmatrix} A_1 & A_2 & A_3 \\ B_1 & B_2 & B_3 \end{vmatrix} = (A_2 B_3 - A_3 B_2)\hat{x}^1 + (A_3 B_1 - A_1 B_3)\hat{x}^2 + (A_1 B_2 - A_2 B_1)\hat{x}^3$ , (6.3) Where  $\hat{x}^1$  (pronounced "x Hat") Is A Unit Vector In The  $X_1$  Direction. The ... 2th, 2024

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