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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 Apr 13th, 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  $A \sim \times B \sim = X^1 X^2 X^3 A1 A2 A3 B1 B2 B3 = (A2B3 - A3B2)x^1 + (A3B1 - A1B3)x^2 + (A1B2 - A2B1)x^3$ , (6.3) Where  $X^1$  (pronounced \"x Hat\") Is A Unit Vector In The  $X1$  Direction. The ... Apr 4th, 2024

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