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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 Jan 14th, 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<sup>1</sup> X<sup>2</sup> X<sup>3</sup> A1 A2 A3 B1 B2 B3 = (A2B3 - A3B2)x<sup>1</sup> + (A3B1 - A1B3)x<sup>2</sup> + (A1B2 - A2B1)x<sup>3</sup>, (6.3) Where X<sup>1</sup> (pronounced "x Hat") Is A Unit Vector In The X1 Direction. The ... Jan 19th, 2024

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