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 Figure 6.1. Rectangular, Cylindrical, And Spherical Coordinate Systems. The Cross  
 Product Of These Vectors Is  $\vec{A} \times \vec{B} = \hat{x} \hat{y} \hat{z} \begin{vmatrix} A_1 & A_2 & A_3 \\ B_1 & B_2 & B_3 \end{vmatrix} = (A_2B_3 - A_3B_2)\hat{x} + (A_3B_1 - A_1B_3)\hat{y} + (A_1B_2 - A_2B_1)\hat{z}$ , (6.3) Where  $\hat{x}$  (pronounced  
 "x Hat") Is A Unit Vector In The  $x_1$  Direction. The ... Jan 3th, 2024  
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