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20246 Electromagnetic Fields And Waves56 Electromagnetic Fields And Waves Z Y R X Figure 6.1. Rectangular, Cylindrical, And Spherical Coordinate Systems. The Cross Product Of These Vectors Is $\vec{A} \times \vec{B} = \hat{x}^1 \hat{x}^2 \hat{x}^3 \begin{vmatrix} A_1 & A_2 & A_3 \\ B_1 & B_2 & B_3 \end{vmatrix} = (A_2B_3 - A_3B_2)\hat{x}^1 + (A_3B_1 - A_1B_3)\hat{x}^2 + (A_1B_2 - A_2B_1)\hat{x}^3$, (6.3) Where \hat{x}^1 (pronounced "x Hat") Is A Unit Vector In The X_1 Direction. The ... 17th, 2024.

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