Properties of E - vector - property of pt in space $E = \hat{E}(x,y,z) \qquad f(x)$ $F_{-n}(+i) \qquad (-)$ - Exists at (x,y,z)
even if
no cha there - created by other charges elsewhere

$$\widehat{F}$$

$$\widehat{F}$$

$$\widehat{E}$$

$$\widehat{F}$$

$$\widehat{E}$$

$$\widehat{F}$$

$$\frac{1}{|\mathcal{L}|} = \frac{1}{|\mathcal{L}|} = \frac{2}{|\mathcal{L}|}$$

$$\frac{2}{|\mathcal{L}|} = \frac{1}{|\mathcal{L}|} = \frac{2}{|\mathcal{L}|}$$

$$\frac{2}{|\mathcal{L}|} = \frac{2}{|\mathcal{L}|} = \frac{$$

EX: Charged Pt particle 2 = 6 uc what is the Field @==<-0.2,0.4,0>m? $\vec{E} = \frac{1}{4\pi c_0} \frac{2}{|\vec{c}|^2}$ $\hat{r} = \frac{\vec{c}}{|\vec{r}|} = \left(\frac{-\frac{2}{45}}{45}\right) \cdot \frac{4}{45} = \left(\frac{-\frac{2}{45}$ $\overline{E} = \frac{1}{47160} \frac{6 \times 10^{-6}}{(-.44, 88, 0)}$ E. = 8.85 x/6-12 C

Read 13,5 - 13,6