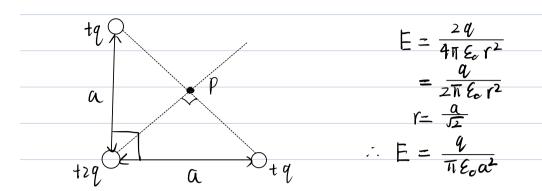
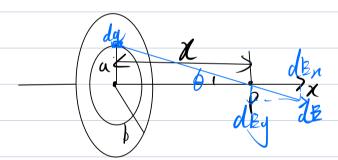
1. 3个鱼电荷如圆放置, *P鱼的电场强度



2. 一场为节电圆环形平面的电荷面密度为6、环的内、外平经分别为a和b。求圆环中心轴线上与环面相距为X处生中的电场强度以及当1000时至P的电场强度



$$dq = 6dS$$

$$= 62\pi rdf$$

$$dE = \frac{x \cdot da}{4 \pi \varepsilon_0 (x^2 + |\vec{r}|^2)^2}$$

$$E = \int dE = \int_{a}^{b} \frac{\chi \cdot 62\pi v dr}{4\pi \epsilon_{0} \alpha^{2} + r^{2} r^{2}}$$

$$= \int_{0}^{b} \frac{x \cdot 6}{2 \cdot \epsilon_{0}} \cdot \frac{r dr}{(x^{2} + r^{2})^{\frac{3}{2}}}$$

$$= \frac{x \cdot 6}{2 \cdot \epsilon_{0}} \int_{0}^{b} \frac{1}{2} \cdot \frac{dr^{2}}{(x^{2} + r^{2})^{\frac{3}{2}}}$$

$$= \frac{x \cdot 6}{4 \cdot \epsilon_{0}} (x^{2} + r^{2})^{-\frac{1}{2}} \int_{0}^{b} (-2)$$

$$= -\frac{x \cdot 6}{2 \cdot \epsilon_{0}} (\frac{1}{3x^{2} + b^{2}} - \frac{1}{3x^{2} + a^{2}})$$

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