チ、し 9、=1,0×10°C 92=30×10°C 93=-1,0×10°C 点色符 (1) 哪一十点电荷的学的力最大 库色定律 前 [9392]=|F23]=|F32]=|F1=|F1=|F1=|F1=| = 1.0 ×10-6 × 3.0 ×10-6 4 1 × 8.85 ×10-12.0,022 = 6.7,4/ 1F13 |= |F31 | = 19,931 = 22,5N Fi Fi Fi 9, 经写为为 F, = (Fn- Fnlos x)i-Fn sinaj =-(1/ni+58,4j)N F1 = (F13-F12 (OS X)2+ (F12 sin X)2 = 57.5 N  $\theta_1 = \operatorname{arctan} \frac{F_y}{F_y} = \operatorname{arctan} \left( \frac{F_{nsind}}{F_{13} - F_{ncosd}} \right)$   $= Rt \operatorname{arctan} \left( \frac{58.4}{11.2} \right) = 259.10 \left( \frac{F_{nsind}}{F_{13} - F_{ncosd}} \right)$ 9. 受与力为 Fz=ZFz(cos xi=67,4iN F3 = -(F3, +F32 (05d) i+ F32 SInd j = (56.2 i+58.4 j) F3= V(F3, +F32 (05 d)2+(F32 Sind)2=81.0N  $\frac{52}{F_{3y}} = \frac{4rctan}{F_{3y}} = \frac{1}{4rctan} \left( \frac{F_{32} \sin d}{F_{31} + F_{31} (\cos d)} \right) = \pi - \frac{4rctan}{562}$ 93 爱台户野女 [2] 92 些力也就是67,41,100×年的下的。

人能于在何处受到的力最大

XCO时《鞋子的X轴与方向, X70时 X鞋子的X正方向

O-7----

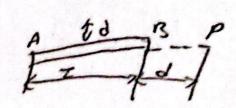
7.6 A 5. 9,=1.8×16 C B 5 92=-4, 8×10 G BC=0.04m,
AC=0.03M

(1) (处的电场强度 与一点。(-j)=-1,2×104J m

Ec by x 1. カ

E(=)(-1,8×104)2+12.7×104)2=3.24×104V/m 至年(5×)

7.7 AB的EL,电荷结密度为入



11) P处电场强度

我们发生的首约是给《日方向

$$\frac{E_{p} = \int dE_{p} = \frac{\Delta}{4\pi\epsilon} \int_{\frac{1}{2}}^{\frac{1}{2}} \frac{dx}{(\frac{L}{2} + d - X)^{2}} i = \frac{\Delta L}{4\pi\epsilon(d + L)d};$$

$$\frac{A}{e^{0}} \int_{\frac{1}{2}}^{\frac{1}{2}} \frac{dx}{dx} \int_{\frac{1}{2}}^{\frac{1}{2}} \frac{dx}{(\frac{L}{2} + d - X)^{2}} i = \frac{\Delta L}{4\pi\epsilon(d + L)d};$$

(2) Q点的中部强度

dEq = 1 dq er