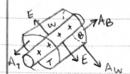
Example #1



Otof = AT+ DW+DE Φ=E·A=EAcosO⇒EAw=E

Electric force

Field calculations (multiple, continuous)

Motion of charge in uniform field

Gauss' law

Example #2

q1 = -50 pc x 10-6 c

92=50 MC x 10-6 C

d=52 cm × 10-2 m

EA=? EB=?

EA=E++E-

 $E_{Ax} = \frac{kq}{2d^2} \frac{1}{12} = \frac{1}{4\pi\epsilon_0} \frac{-50}{212(.52)^2}$   $E_{Ay} = \frac{kq}{d^2} - \frac{kq}{2d^2} \frac{1}{12} = \frac{1}{4\pi\epsilon_0} \left(\frac{50}{(.52)^2} + \frac{50}{212(.52)^2}\right)$ 

E0 = E+ + E- E04 = 0

EA = JEAZ + EAY

EBX = EB = E+COSOX + E-COSOX = 2 ECOSOX = 2k = 2 = kgd