Phys 2120-4 9/7/12

9/7/2012

Ch 2 | Gauss's 's Law



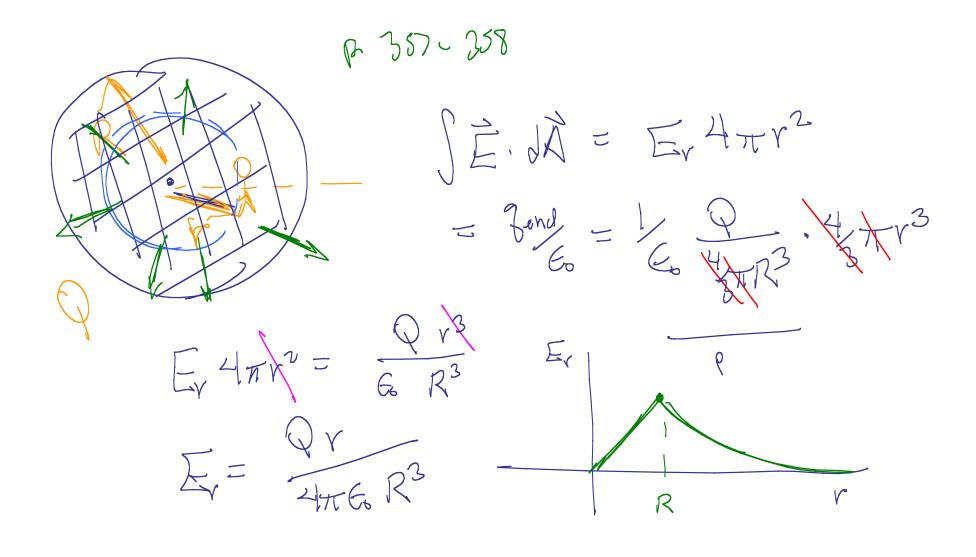
21.20 Flat surface of area 2.0 m² in to uniform 850 M E-field. Find elec. flux thru surface when it's b) at 45° to the field. 重= () 产, 引 $= EA \cos 45^{\circ}$ $= (850\%)(2.0m) = 1.2 \times 10^{3} \% \text{ m}^{2}$ Gauss 5 1 3 53

h= 41760

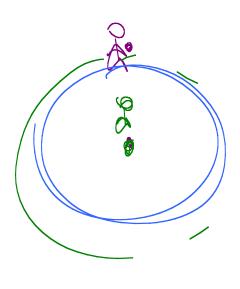
60 = CHIL

 $\int E \cdot dA = \frac{3}{60}$ $E_r A = \frac{3}{60}$ $E_r 4 \pi v^2 = \frac{3}{60}$ Symmetry

5117 ball of whomas Ev 4 my2 Er = Q 4TGOVZ = h YZ Some ag for port Marge



F = G miny Line of charge

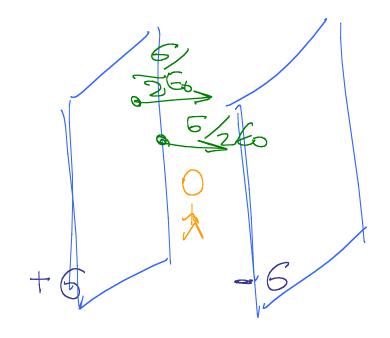


B. Ar

Causis's _aw; ● 产· 3 为 = E, L (2717) Ey E, / (2111) = X/60

Sheet of charge, Charge dansity = 5 is E field at your

JE. 12 = on ens 6 - 3~1/6. 6



Field measured by man