





Staken Halo 11/5/20 Phys 330 Electrodynamics: 2.5, 2.6,2.9 : Homo sparts z circular good radius r 00 50H CAH TOY circular loop DE= MIE 0 17 22 1050 DE = MITEO (12+22) (12+22)1/2 wolfon E= SAE XXEO (12+22)3/2(411) o-charge donoity of Mich = 1 da Z 411/20 (22+X2) (JZZ+XE 1 da Z 411/20 (Z24XZ) (JZ24XZ

Charge denoity: DE - 470 (da) 2 (Z2+x2) 3/2 E=Kr37 Kis constant 2.9). a). charge density p in spherical condinates $\nabla \cdot E = \frac{1}{r^2} \frac{\partial}{\partial r} (r^2 E_r)$ bauces law: 6 E.da = 4 are = 60 (KRir). (UTT R2) F = 80 (417KR5) = 417KEOR5 do por da=pat =5K Eor (umrdr) gendores q=5dq = (USKE or 2) (Horral = LATTKEO R5