

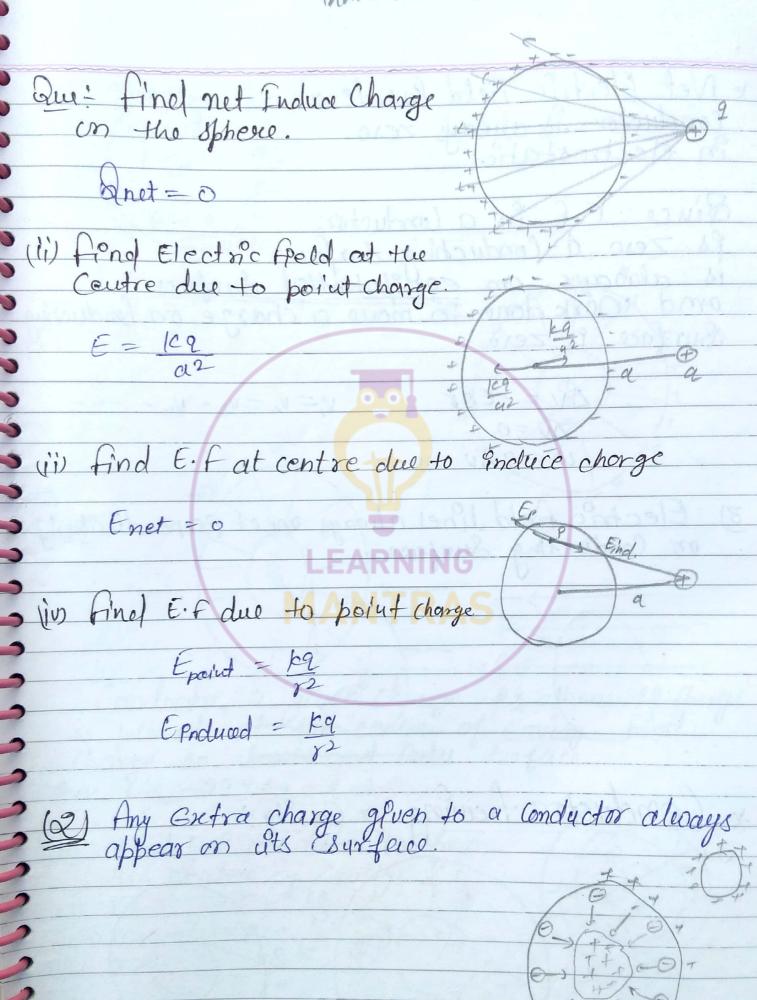
Handwritten Notes On Conductors

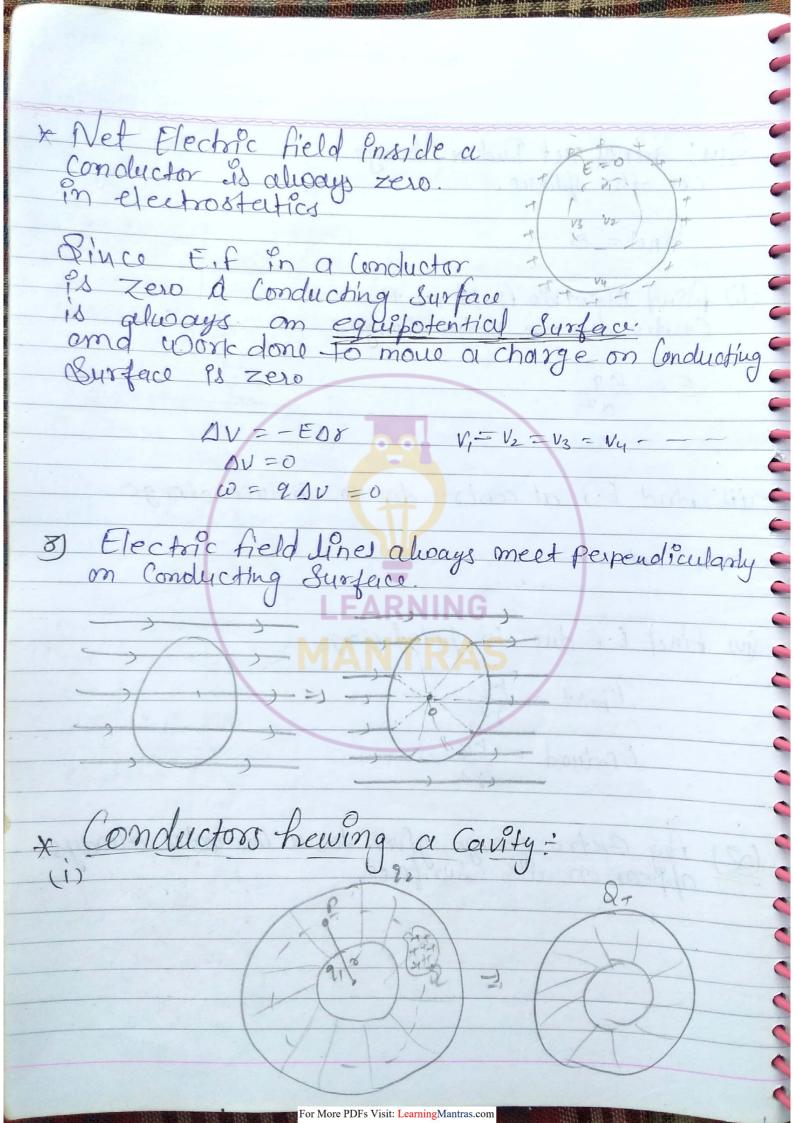


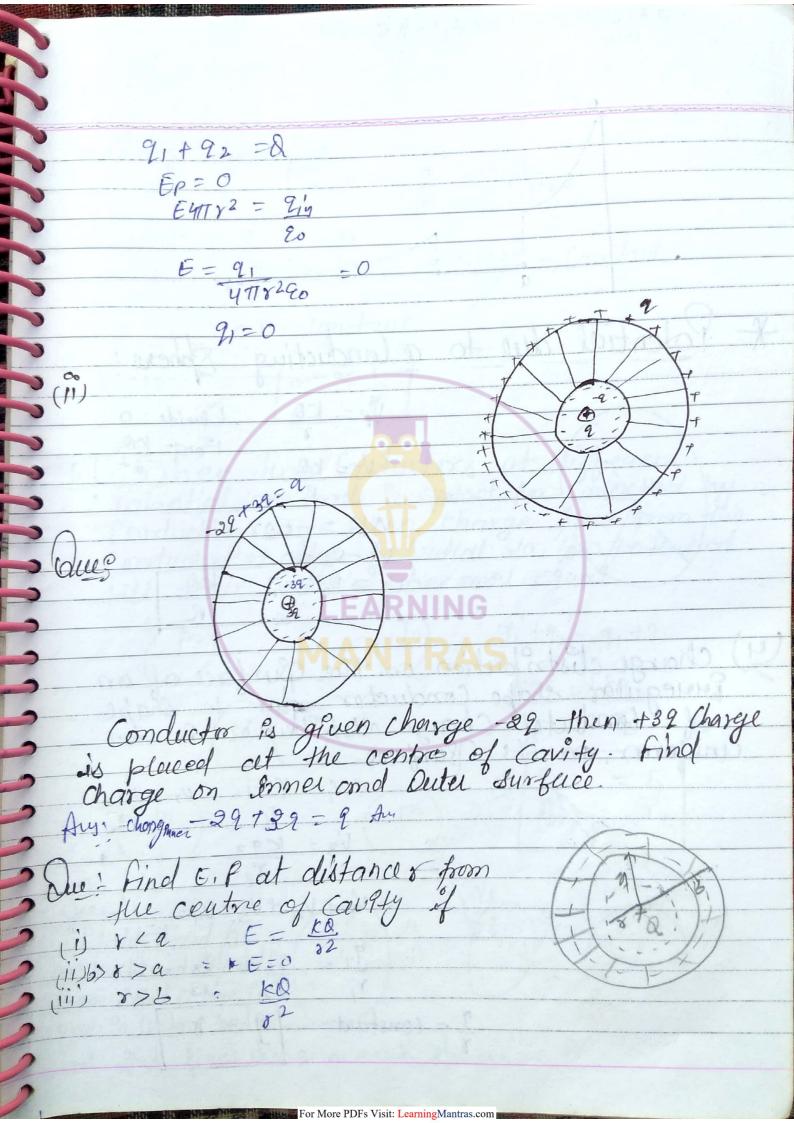


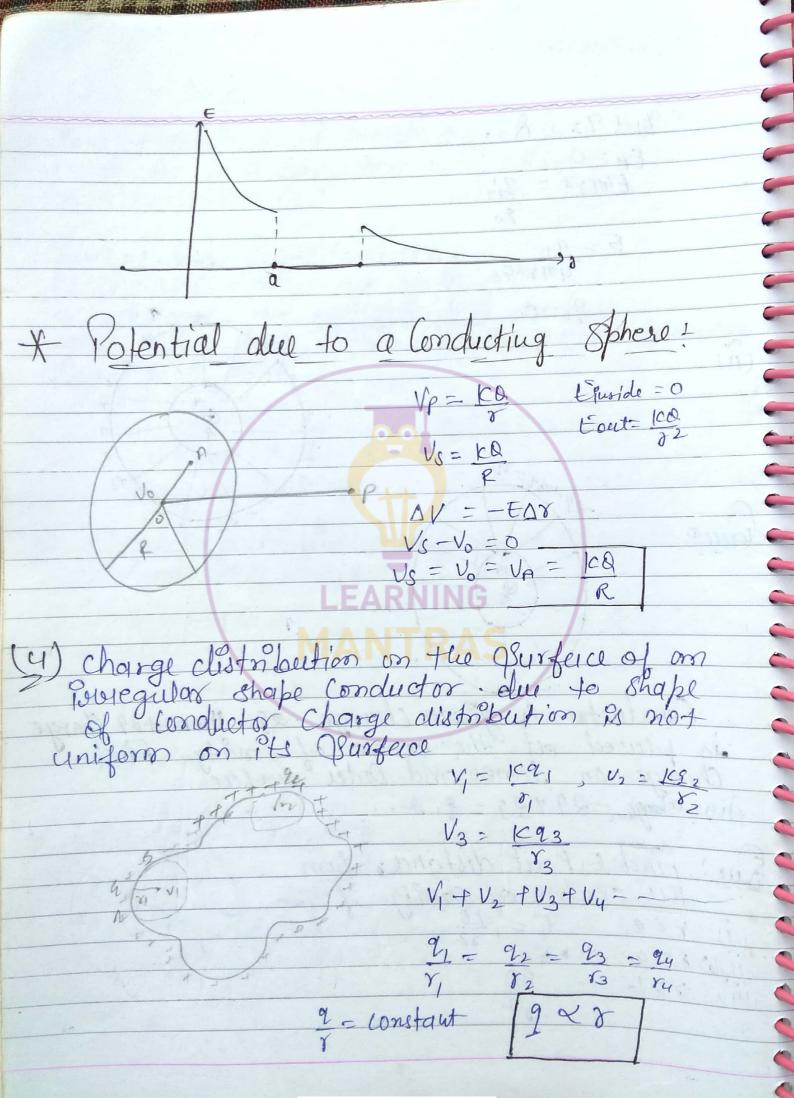
29/05/17 Electrostatic Conductors * Conductors: (Metal): These are the Substance which have a no. of free electrons and these electron move In the body of conductors perties: 1) When a lanductor is placed in external electric Field then charge Produce on the surface of Conductor. So that met electric field Photole the Conductor becomes zero.

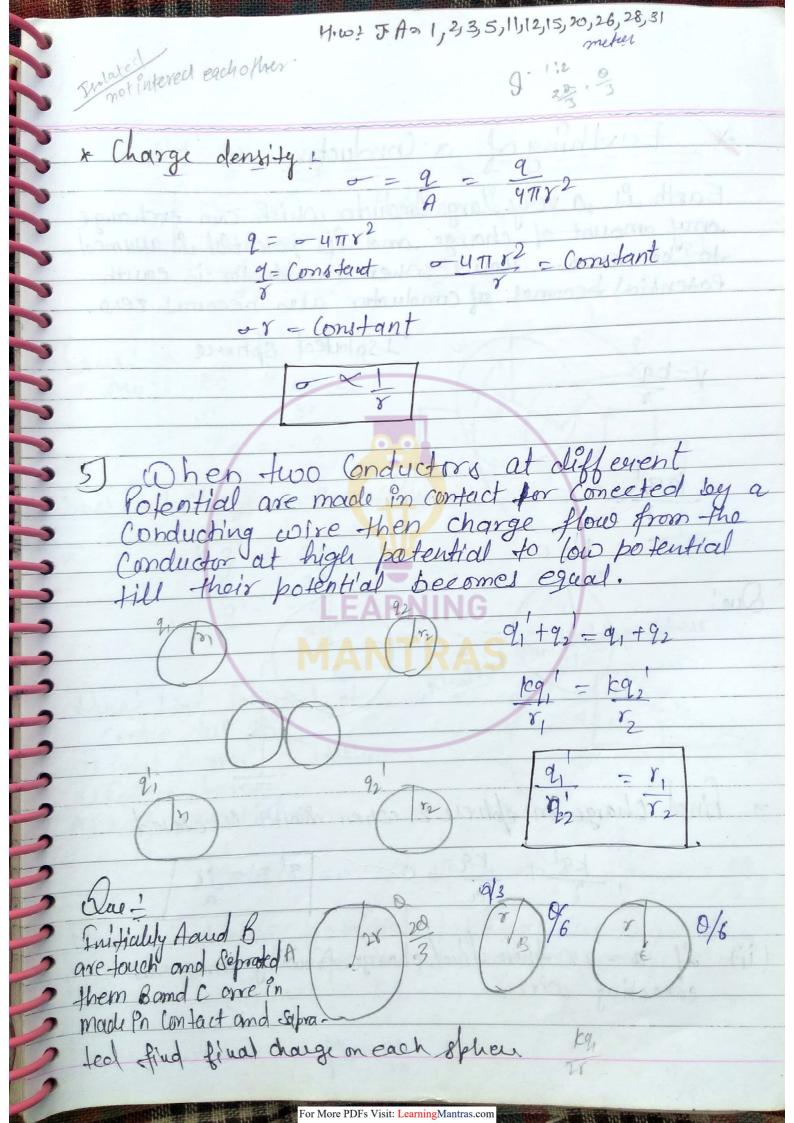
Enet=0 Induced charge



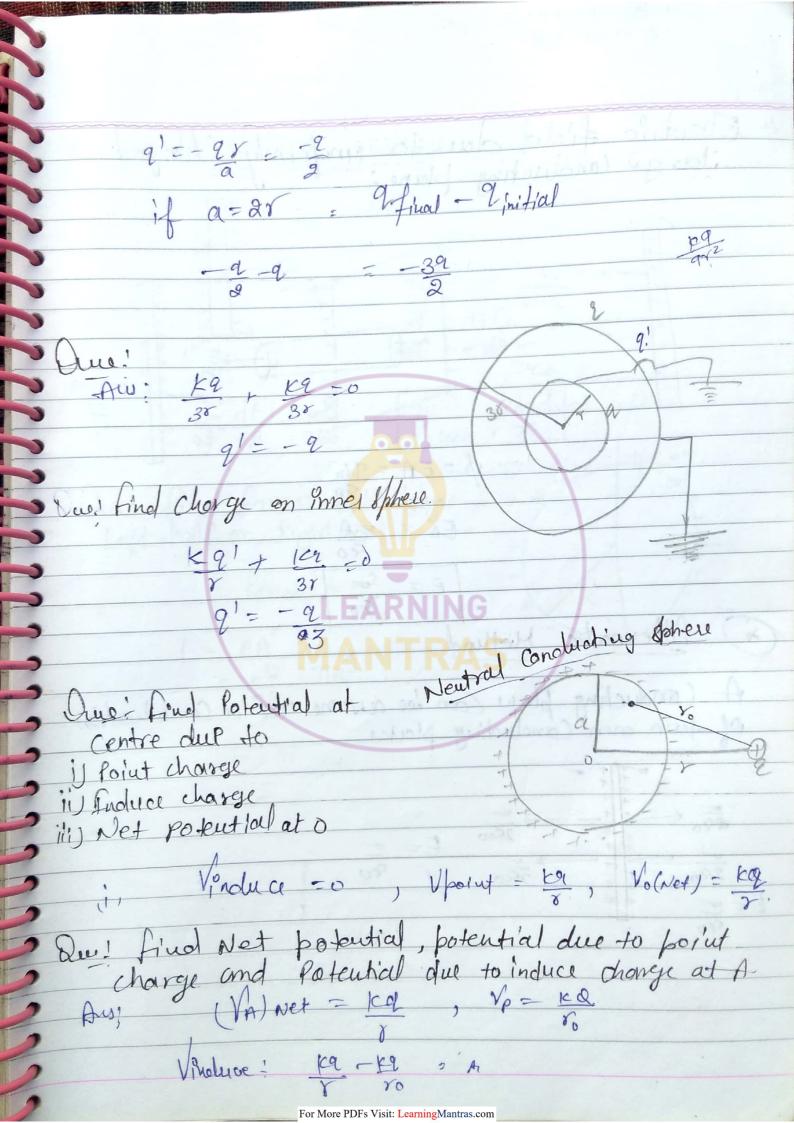


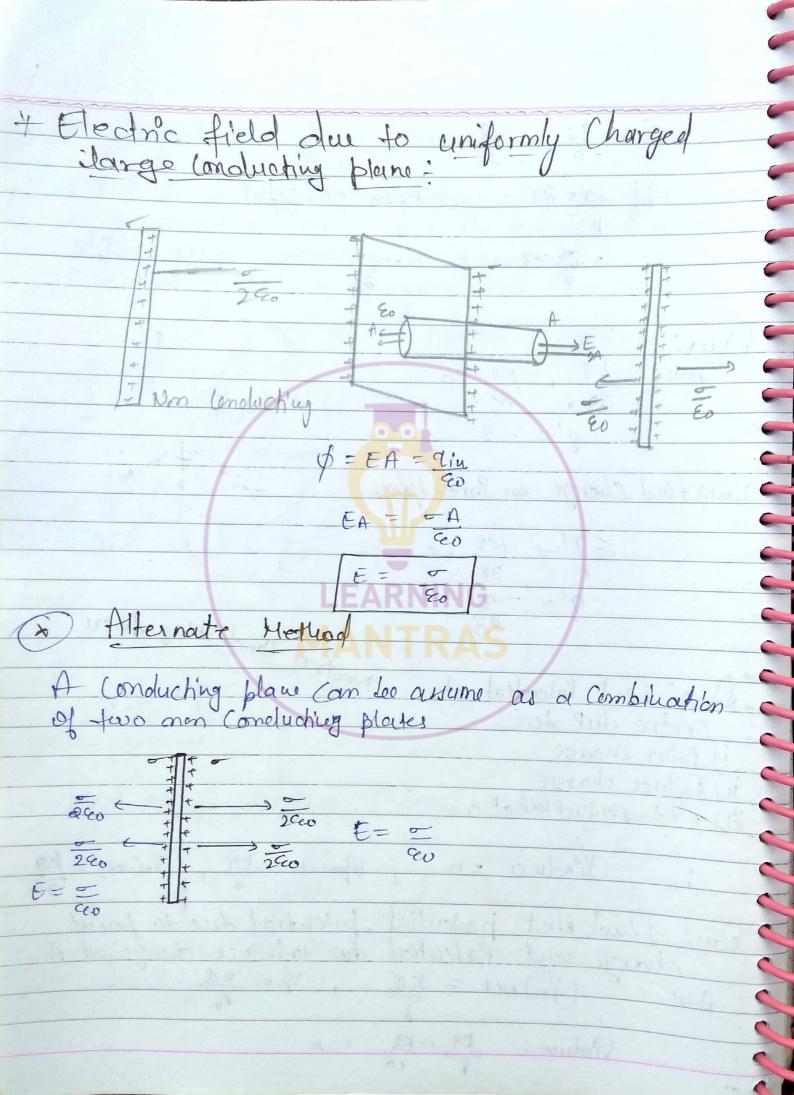






* Earthing of a Conductor: Earth is a very large lonductor which can exchange any amount of charge and its potential is assumed to be zero. House when a conductor is earth Potential becomes of andyour also becomes zero. Isolated Sphere Switch Find charge on ofhere 2 when winter is closed kg' + kg = 0 = 21 = -31, if a = 2x then fine charge frowing throw the





For More PDFs Visit: LearningMantras.com

H.w. ? ea. 8-1:19,21,20,22, resource of ectrostatics df= dati df = -dA -200 le leet 280 And force applied by Left half on Right half

And the second s	249
Date=31/05/17	
A Charles of	THE CONTROL Y
charge density of Rochins	R is charged with
Pomal & are just inside and just	outside the Surface
tiled E.f at Pomol Q.	5 . Q
760	
Hour Ep=0 10h	
wahes the	10 Q
EQ = KQ = Q = = = = = = = = = = = = = = =	
R2 UTTEOR2 E	o to e
11 1 198 111 10 01 9	6 119
(11) A very Small element Cut from the sphere find E. Fat P.	
the sphere find E. Fat P.	and.
	will of the half
tp= E2 = = = = = = = = = = = = = = = = = =	
Y CO'	Maria 1 1
LEARMING	
E 60000000 0 0 10 10 10 0	5 1/-
* Energy density?	
* There are the sound an	a vergen it means
* If electric field exist in electrostatic Energy is store	ed in that seeison
Electrostatic Energy percuit density.	
Energy density: Energy Vol.	E work of o
= f = Pelectrossteutic	
A	
2	

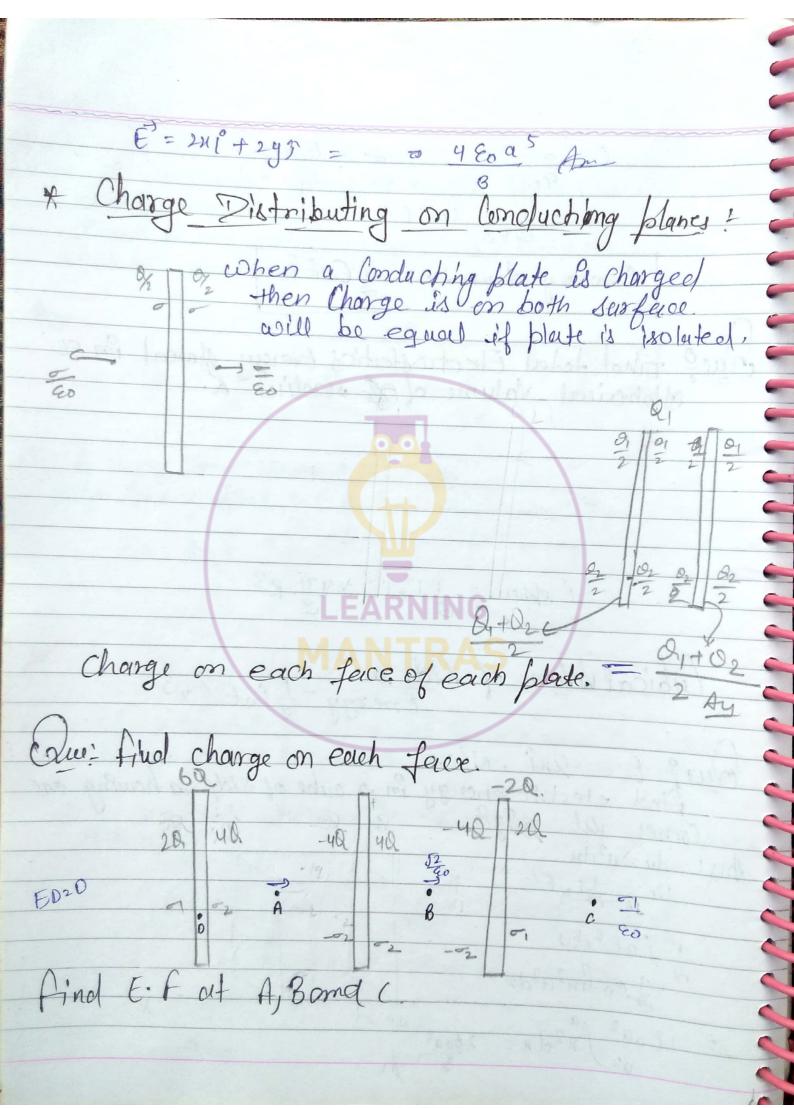
= 1 E02 E2 Energy density = 1 Eo E2 Spherical Volume of & vaolin 2. Esphere = 1 Eo E2 x y TT R3 Cubical Volume of Side a Energy = 1 to E 2 a3 Olue: E = 2xî · N/c.

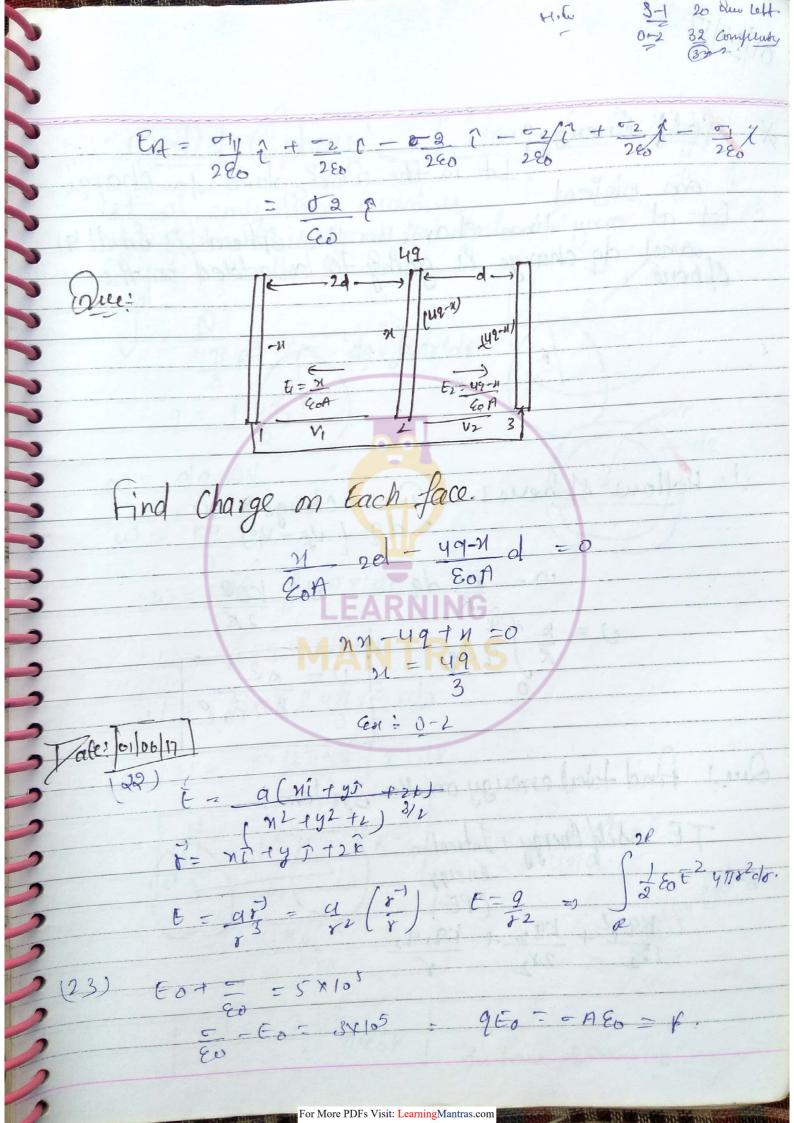
Find electric energy in a cube of side a howing one

Corner at origin.

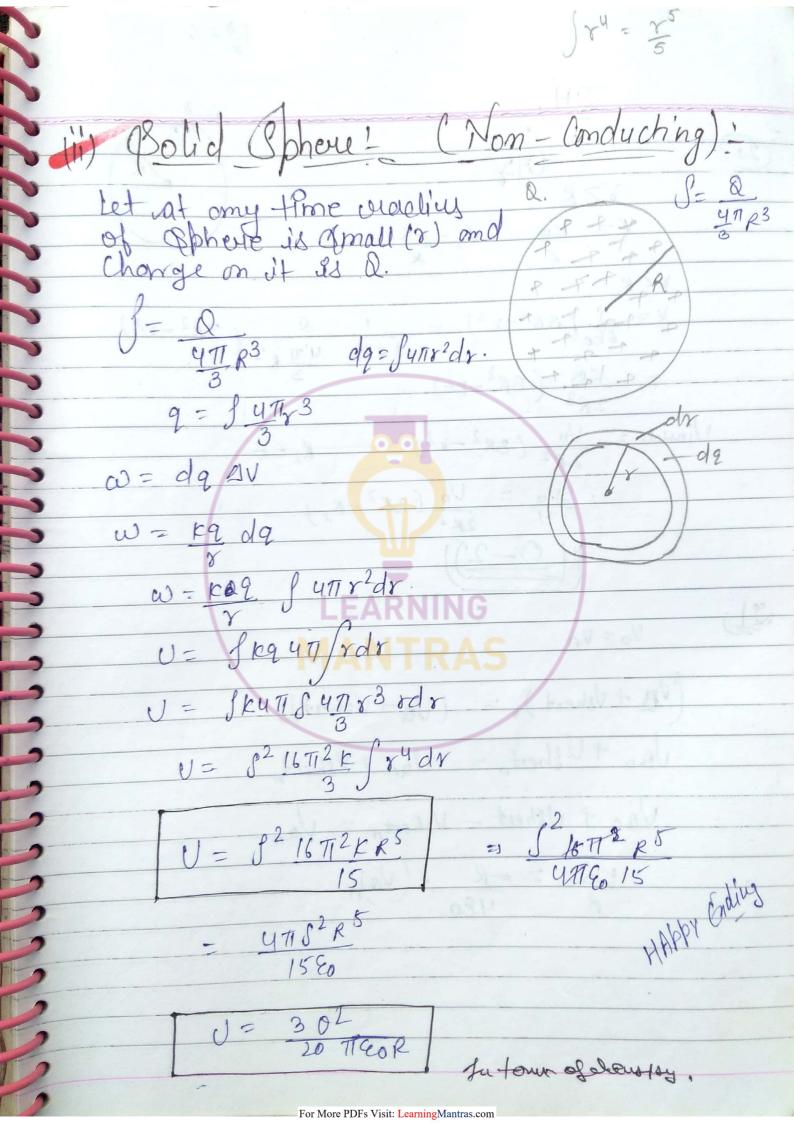
Find du = a²dn

11-2-1-2 VE = JEOE2 1 EOE2 du 2 - 1 to 41/2 a2 du = $2800^2 \int_{N^2}^{a} dN = 2600^{\circ}$

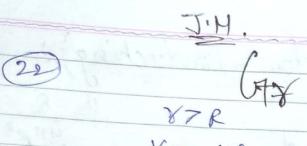




01/06/17
* Apelf Energy: an object Let at any time charge on the opher is amall 9. Sphere of charge is going to be added on the
Hollow Sphere! $\omega = \frac{charge \times DV}{2dQ \left(\frac{V_f - V_f}{V_f} \right)}$ $w = \frac{cq}{R} dq \qquad V = \frac{ co^2 }{2R}$ $v = \frac{ c }{R} \sqrt{2dq} \qquad v = \frac{0^2}{8\pi RoR}$
Que! And total energy on the dystern! TE = Self Energy + Intrection Energy CPE) 12 12 12 12 12 12 12 12 12 1







rcr

$$V = \frac{9}{680} \left(3R^2 - r^2 \right) = \frac{1}{2880} \frac{0}{4783} \left(3R^2 - r^2 \right)$$

$$- KQ \left(2R^2 - r^2 \right)$$

$$\frac{5V_0}{4} = \frac{V_0}{2R^2} \left(3R^2 - R_1 \right)$$

2/1

Vo=VA

(VB + Usheed) = (Va + Usheed)

Vao + V Sheeto = Van + V sheeta

Vao + Vsheet - Vsheet = Van

SBG STUDY