## Anand Shorma 20211055

Data

No.

and different resistivities of, and of are put end to end.

Find the charge at the bone boundary of conductors

I a current I follow flows from conductor

1 to conductor 2.

I Find a Find A Signature A Si

$$E = \int xJ = \int A$$

$$E_1 = \int_{1}^{1} \frac{1}{A}$$
 and  $E_2 = \int_{2}^{1} \frac{1}{A}$  —  $O(1)$ 

Consider cylindrical gaussian suface denoted by

$$\Rightarrow \oint E \cdot dA = 0$$

$$\Rightarrow$$
 -  $E_A + E_2 A = 0$ 

$$\Rightarrow (f_2 - f_1) I = 0 \qquad (cwing 0)$$

Annual Showing

	Date No.
	man Q = (E = E) A Cohan brichailer mut. 12
tor, or	Laster to the transfer hard
	Q= (12-1) TGold rad had
The second	have most retail and the topological of the
	through
0 * * 1	in When current flow fetteren junction of two conductors, some charge accumulated at the junction of conductors.
	two conductors, some charge accumulated
	at the junction of conductors.
<del></del>	Why it must happen
	1) in the same of the same conductors
	when current is flowing through one conductor the electric field is same, but when there
	are two conductors, there must be different
	electric dields to maintain steady flows of
	electric fields to maintain steady flow of currue current through their junction.
	As the conductor change the recisivity also
	change so charce flowing in that electric
	As the conductor change, the resistivity also change, so charge flowing in that clectric current should get some extra push or pull
	on to maintain steady current and this
	charge accumulated at the injunction
	that extra puch or pull
	is helpful and responsible in providing to
og Estimak (com estate in lighte second at nice with wear	that extra push or pull
ALL DESIGNATION OF THE PARTY OF	

Beyond that. Date Bending of wire. When we bend a wire certain charge (Q) Is accumulated at the edge of the of wire. This charge Q after reaching to steady state help in good directing upuning charges towards bend. In this case, since of (resistivity) is some, but charge density is different because of difference in area of wire at bend and area of straight wire, so accumulated