Aun L'an-Al

13.01.2021

011201262 section: A

comp find to the state of the second of the second and the second to the second of the Conductivity is the measure of the ease at which an electric charge or heat can Paras through a material. A conductors is a material which gives very little resistance to the flow of an electric coprent on thermal energy.

Since conductivity is the measure of how easily electricity flowr, electrical resintivity measures how much a material resipts the flow of electoricity. That is the main differce between resistivity and conductivity.

Question 02

Surface charge dempity (6) is the quantity of change persunit arrea, measured in collombra pero oquane meters (C. m-2), at any point on a surface charge distoibution on a two dimensional surface chang density can be either Popitive or negative, Since électrie change can be eithers Popitive on negative. The unit is how enaily electricity flown Limbor

reasingtivity measures how much a

material realists the flow of closetaristy

territoria desperante de la face de la face

avertion 03

Hene given; moor -

E=97.

R=7.95011

n= 3.7 N.

we know,

I = R+00

7.9 + 3.7

TY OIX OF E 0.78 A OIX OIX STILL STILL

NOW, we have to find the terminal

voltage of the battery;

Vterm = E - I so

= 9- (0.78×3.7)

= 6.114 V.

(Result)

Question 04 Here, L= 7.00 m t = 6mm NOW; =6 X 10-3 NOW, CT = 9 A=TN=TX(6X103)~ = 1.13X104 m E= 3.75 X 10 2 V/m We know, 21.3X 153 A R = PL 20.192 X [13 X 10 $= \frac{3.75 \times 10^{2} \times 7}{7}$ $= \frac{3.75 \times 10^{2} \times 7}{1.3 \times 10^{3}}$

Questionos - X t = II Red = 2, 102 = 100 Green=5, 105=100000 black = 0, 10° = 1 Jellow = 4, 104 = 10000 Brown = 1, 10' = 10 Nominal = 25 X 10° = 25 sc (Black) The 18/2 = 30 x (100 1) manimum = 25+25×0.1=27.502. (Brown) reprind voltage Minimum = 25-25XO. = 22.5 D. Result)

Question-06 and now, (10 x1 8.667) +5 +0.5 $= \frac{10 \times 8.667}{10+8.667} + 5 + 0.5$ z 10.142 S. 2 + R $\pm = \frac{v}{r} = \frac{0.1429}{10.1429} = 0.8873$

 $\pm 1 = \frac{8.667}{10+8.667} + 0.8873 = 0.411A$

±2= 10-19-667 × 0.8873 = 0.4753A ±32 8+4 X±1 Z 8+4 x 0.4753 20.1584 A VnzIR 20.8873 X5 24.4365V Vterm = t - 100 2 9 - 0.8873 XO.5 2 8.556 3V (Roult)