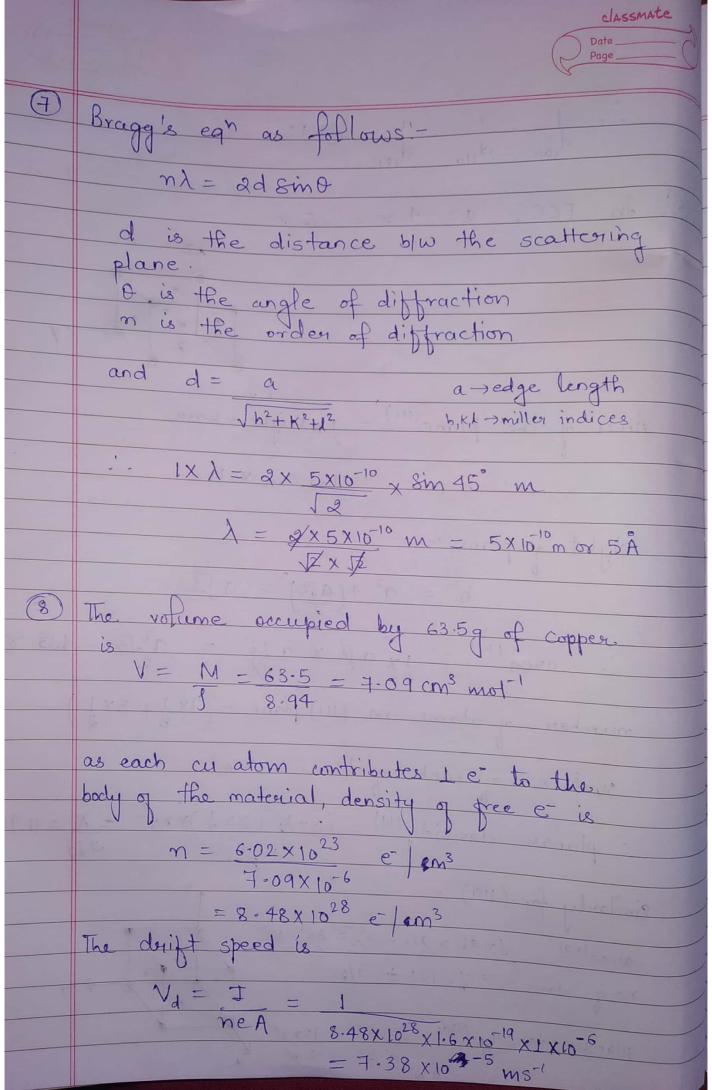
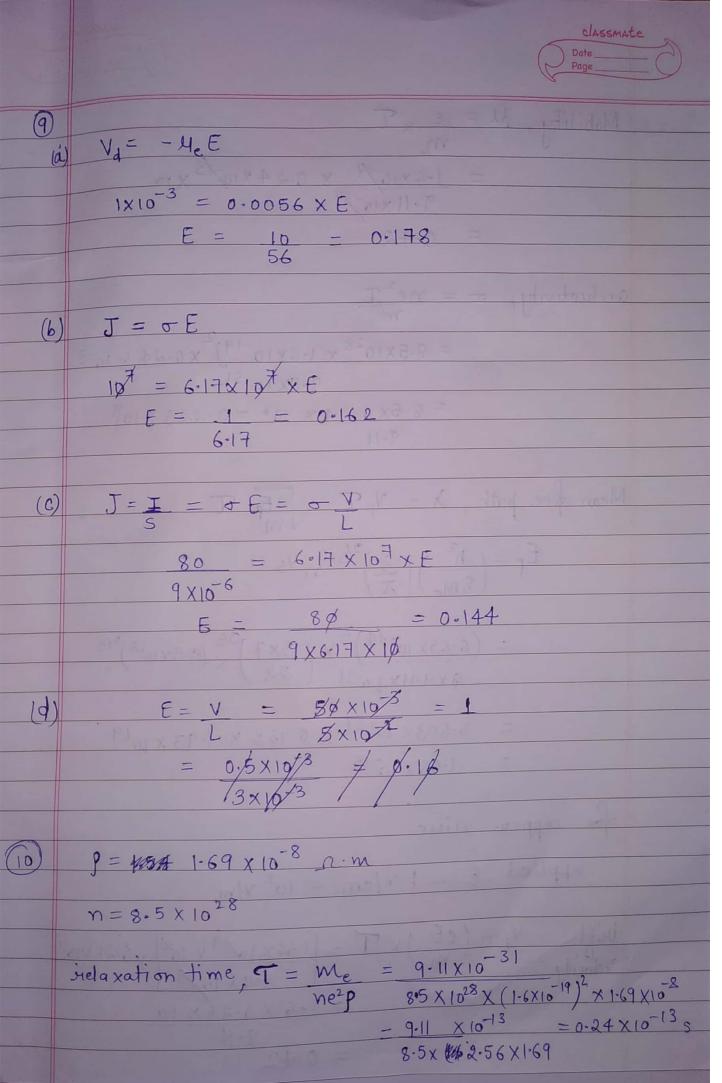


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classmate
Date Page
Mobility, $M = e \times T$
m
$= \frac{1.6 \times 10^{-19} \times 0.24 \times 10^{-13} \times 10}{9.11 \times 10^{-31}}$
9.11 × 10-31
1-11 ×10
= 0.421
2 1 1 2
Conductivity, $\sigma = ne^2 T$
$= 8.5 \times 10^{28} \times (1.6 \times 10^{-19})^{2} \times 0.24 \times 10^{-13}$
$= 8.5 \times 10^{-3} \times 10^{-3}$
9-11×10-31
$= 8.5 \times 0.24 \times 10^8 = 0.223 \times 10^8$
9-11
Mean free path, X = VFT - SEG T
$\frac{E_{f}}{8 \text{ Me}} \left(\frac{3}{\pi}\right)^{2/3} \text{ m}^{2/3}$
$+$ $(8 \text{ Mp}) / \pi$
$= (6.63 \times 10^{-34})^2 \times (3 \times 7)^{3/2} \times (9.5 \times 1)^{28}$
$= (6.63 \times 10^{-34})^{2} \times (3 \times 7)^{3/2} \times (3.5 \times 10^{28})^{2/3}$ $= (6.63 \times 10^{-34})^{2} \times (3 \times 7)^{3/2} \times (3.5 \times 10^{28})^{2/3}$
8 x 9 · 11 x 1 o - 31 ( 22 )
- n.f.n. 2 / 10 - 37 n. n. 2 / 2
$= 0.603 \times 10^{-37} \times 0.932 \times 1.93 \times 10^{19}$
$= 1.08 \times 10^{-18}$
for copper viere
applied $E = 1 \text{ V/cm} = 10^2 \text{ V/m}$
duitt V, = (eE 1/ 5 [1-(2/4 1/9 27 -13
duit $V_d = (eE) \times T = [1-60 \times 10^{29} \times 10^{29}] \times 0.24 \times 10^{23}$
velocity, m) [9.11 x 10-31]
= (-6 × 6-24 × 10 9-11
= 0.42

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