93. given that $E=\frac{1}{2}$ A=1cm²= 10^{-4} m², d=0.3mm, V=2 Volt $=0.3x/5^3m$ n= 2x/019 m-3, Me= 0.36 m2/Vis, M= 0.17 m2/Vis I= neemeth, In = nhemeth ne=nh=n I = Jet In = ne (Me+My) EA I= ne(Me+Mh) +A = 2x/2/1/2/0.36+0.17) 2 x/54 $I = 3.2(0.53)\frac{12}{0.53} \times \frac{18}{3} = \frac{3.392}{3}$ [I= 1.13 Amp] I We Know that o = e (nelle + nhlh) 0=1.6x/5/9 (4.4/x/022 x0.39 + 1.3x/0/6x0.19) =1.6x10-19 (1.7199x1022+0.247x186) = 1.6x10 (1719.9x1019+0.000247x1019) = 1.6 (1719.900247) = 275/.8432752