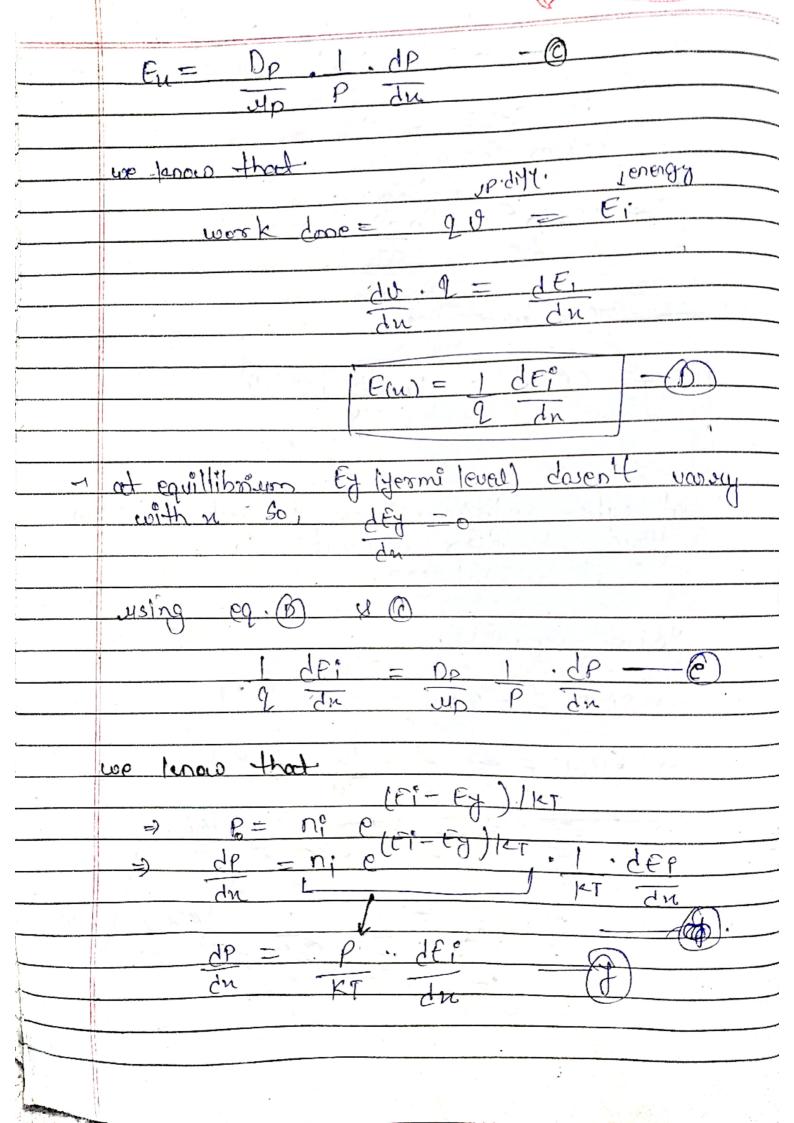
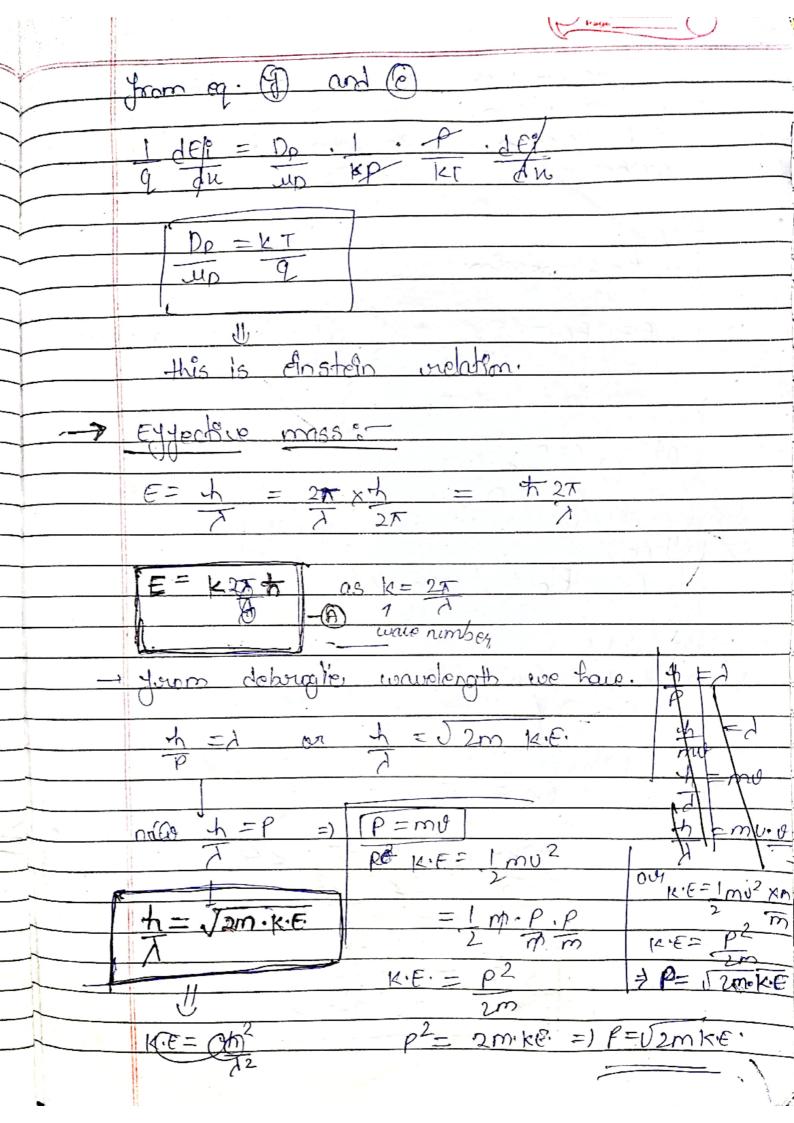
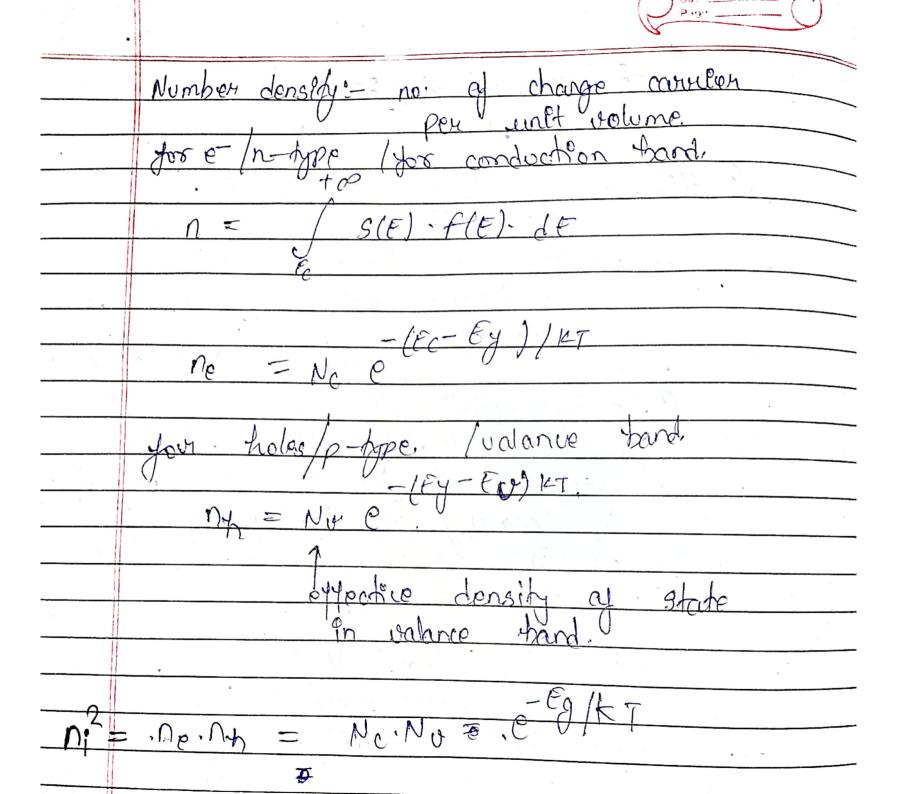


|   | M 144 1 (=1 = 0 int mont + diffusion   |
|---|--|
| 1 | overall diffusion $(J) = D$ with current + diffusion density  (i.e. $J_T = J_N + J_P$ )  |
|   | $\frac{\partial \mathcal{L}_{1}}{\partial \mathcal{L}_{2}} = \frac{\partial \mathcal{L}_{2}}{\partial \mathcal{L}_{2}} = $ |
|   | your electrons (our n-type)  |
|   | JOH PIPC 76 01 15 (EVC 17 G)   |
|   | Just en un E + eDn dn A  |
|   |  |
|   | your holes (our P-type)  |
|   | JPT= ep.4pE-eDpdb -B   |
| - | dn   |
|   |  |
|   | 1  |
| 4 | at egb. condition - theres is not net flow   |
|   | Ulnia al moor rightene so  |
|   | JOT OUT JOT = 0.   |
|   | 6  |
|   | Yorom eq. (B)  |
|   | 004 = -600 dp = 0  |
|   | =) Crosp con   |
|   | $\Rightarrow \&P.UpE = \&DpdP =$   |
|   | =) Property du   |
|   |  |







|    | Page   | A Anna   |
|----|--|----------|
|    | und 2-Summay.  |          |
|    | O Piode- Current Equation  |          |
|    | O prode: Current Equation  |          |
|    | -1 Up = votrige account deode<br>-1 n = 1 for he 1 idealthy factor.<br>2 for Si    |          |
|    | -1 V- = voltage equivalent four temperator   | же<br>   |
|    | =) 127 $\sqrt{k} = -boltzman's$ constant  2 $\sqrt{\tau} = absolute$ temperature s | fn K° }  |
|    | -> I = diode current   |          |
|    | 6 fourbidden energy gap=) energy differences                                       | e<br>./  |
|    | COB.   | neorti e |
| jγ |  | 2 × 2    |
|    |  | m/JZ     |
|    | B' form factour = Rimbualue = 1.57  OC value                                       | [+1]     |
|    | 9 efficiency = output DC = 40.6%   | 01.24.   |
|    | Charles Co.  | n/x X2   |
|    | (6) ripple factor = R.M. 5 of Ac output 1  |          |