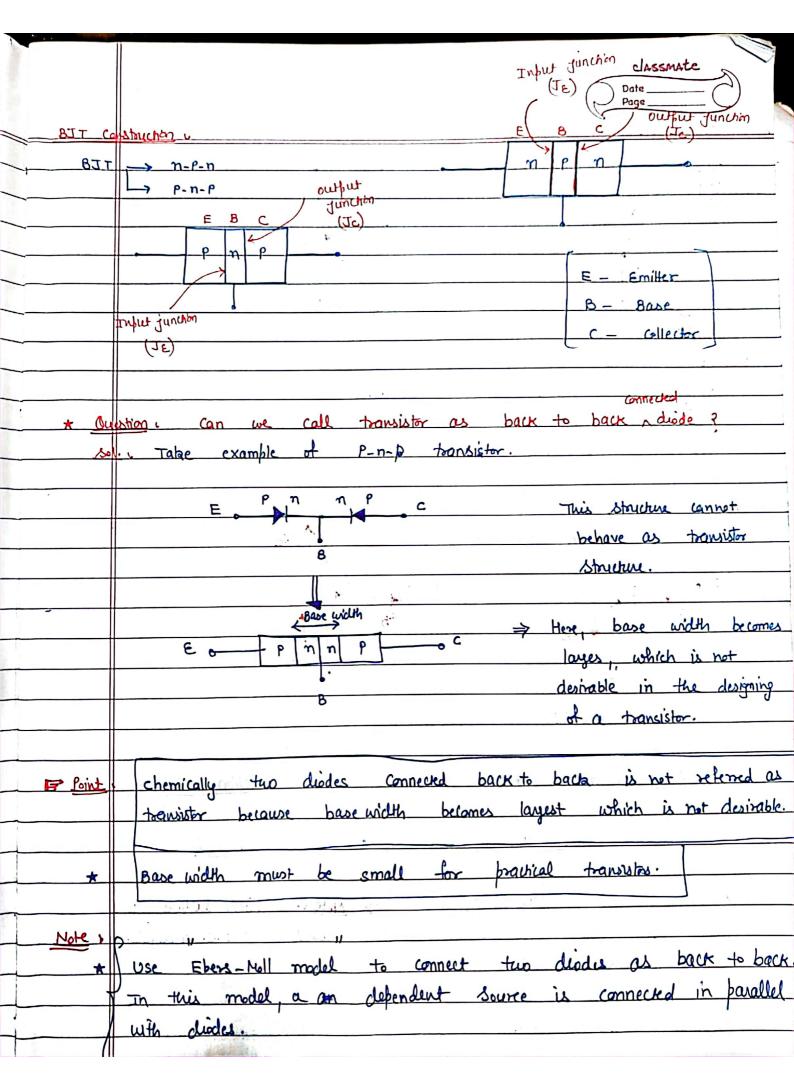
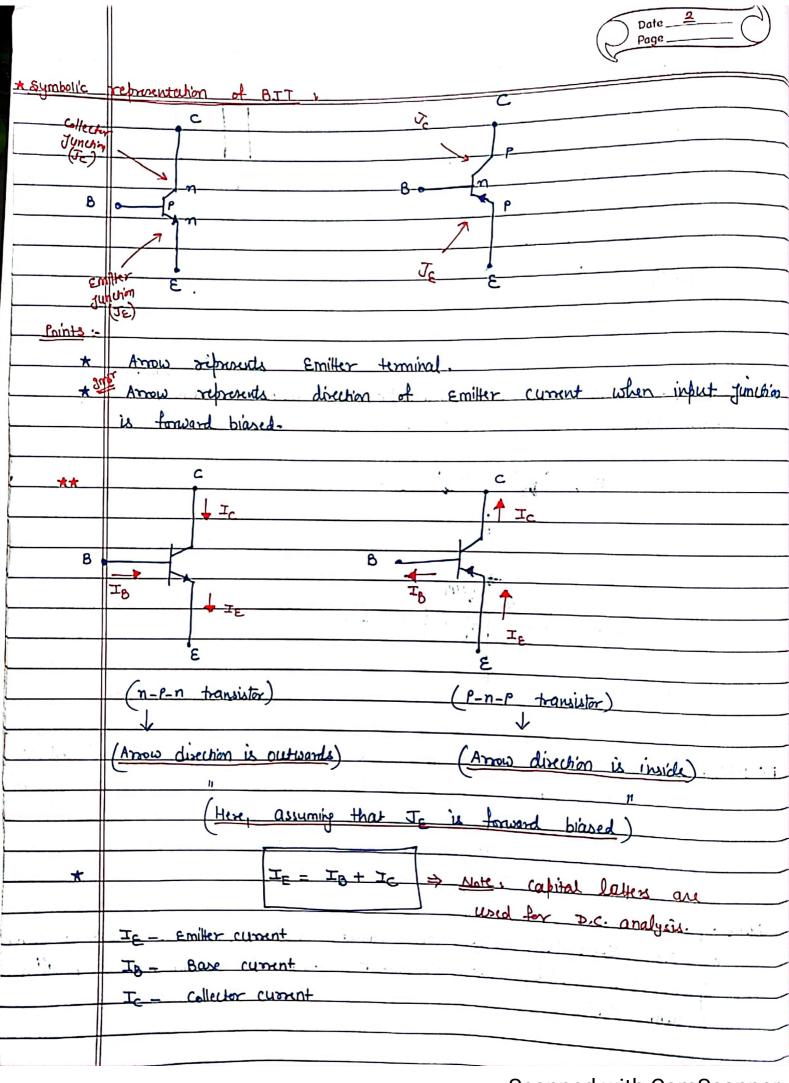
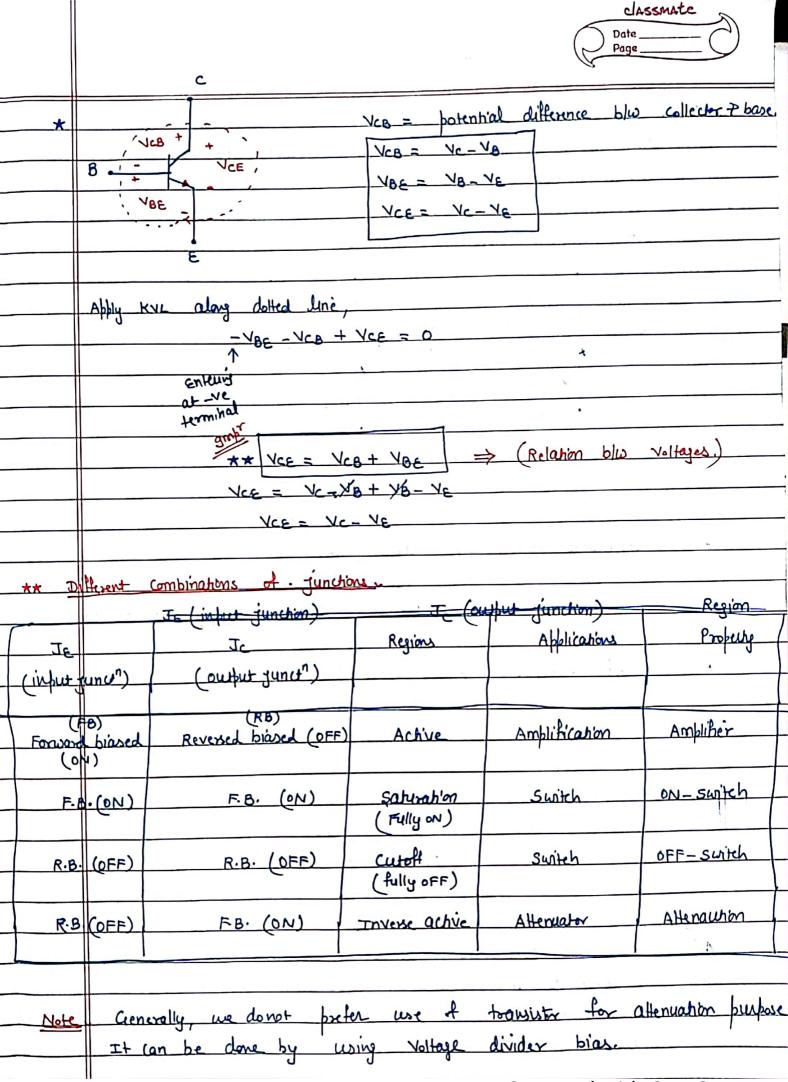
| Definition of | Amplification: The process of transfering the weak signal from low resistance region to high resistance region, which makes the weak signal to strong signal. This process is called amplification. |
|---------------|--|
| * | weak signal -> low amplitude signal. strong signal -> high amplitude signal. |
| * | Transister - Transfer + resistor |
| Definition | of transister. Transister transfers wear signal from low resistance region to high resistance region such that wears signal becomes strong signal. |
| * | Diode has no amplification property. Transister has amplification property. |
| Construction | junch'm |
| (Anode) | (Diode) A PM K (Cathode) (Sumbly of least of the state |
| | (P-N ginchion diode) 2- terminal 7 |
| 14- | 1- junchem device |



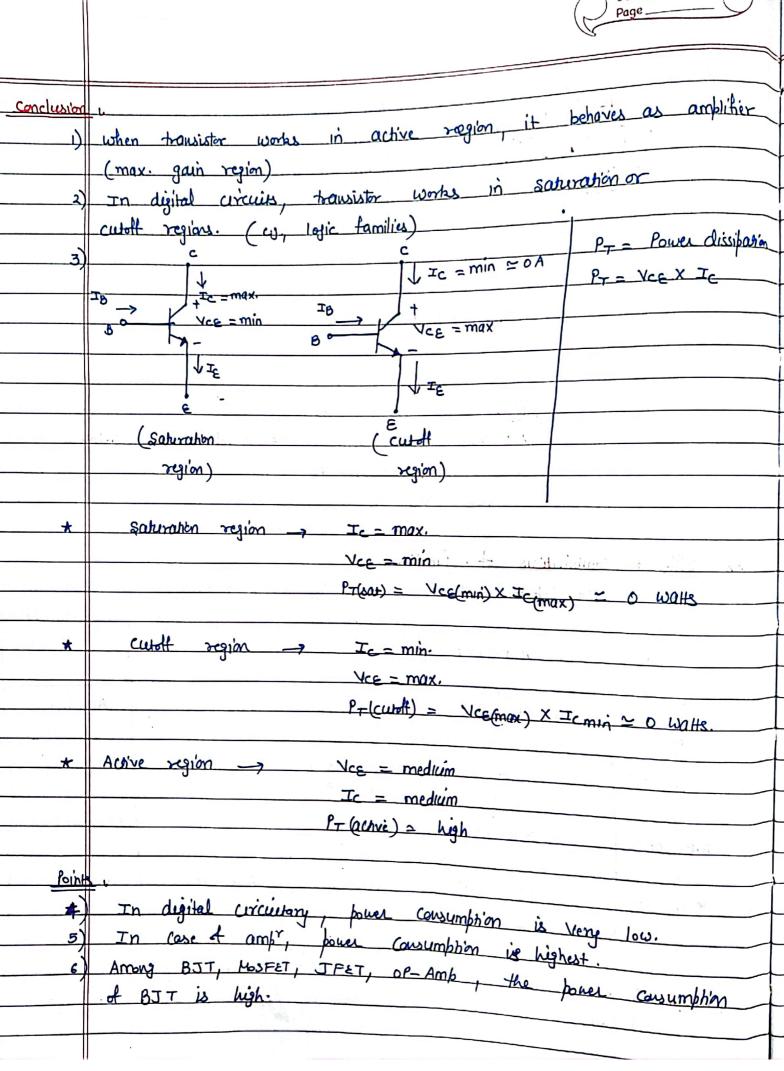
Scanned with CamScanner



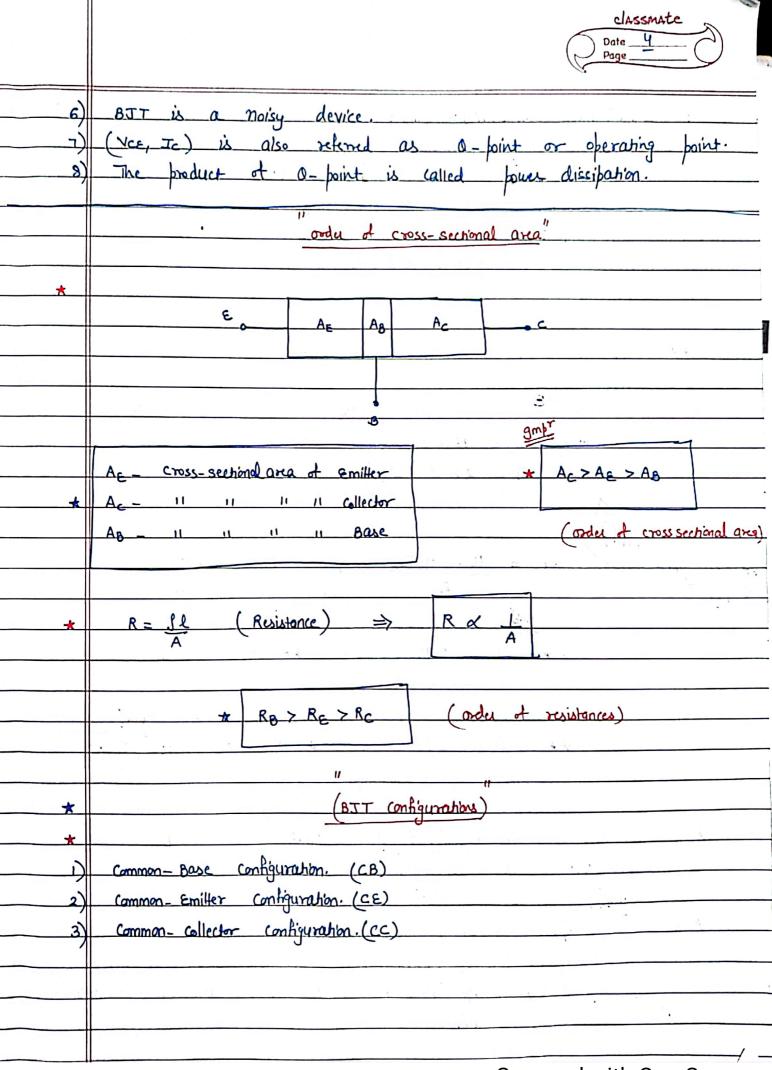
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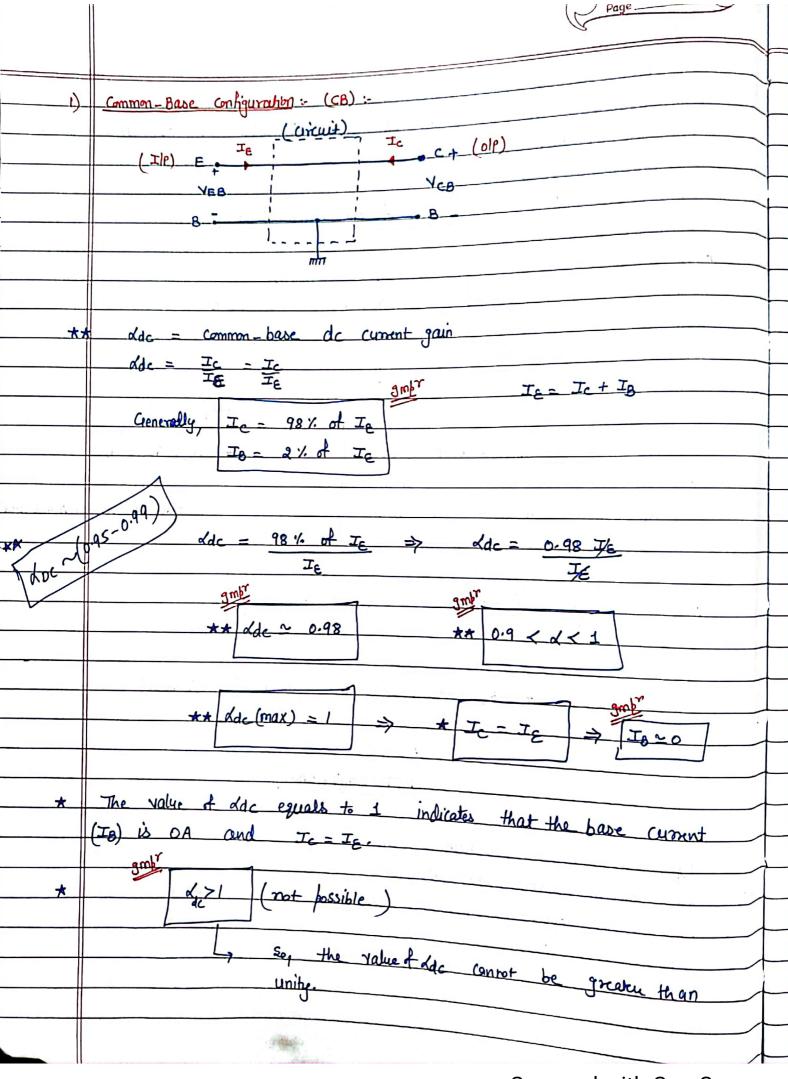
Scanned with CamScanner



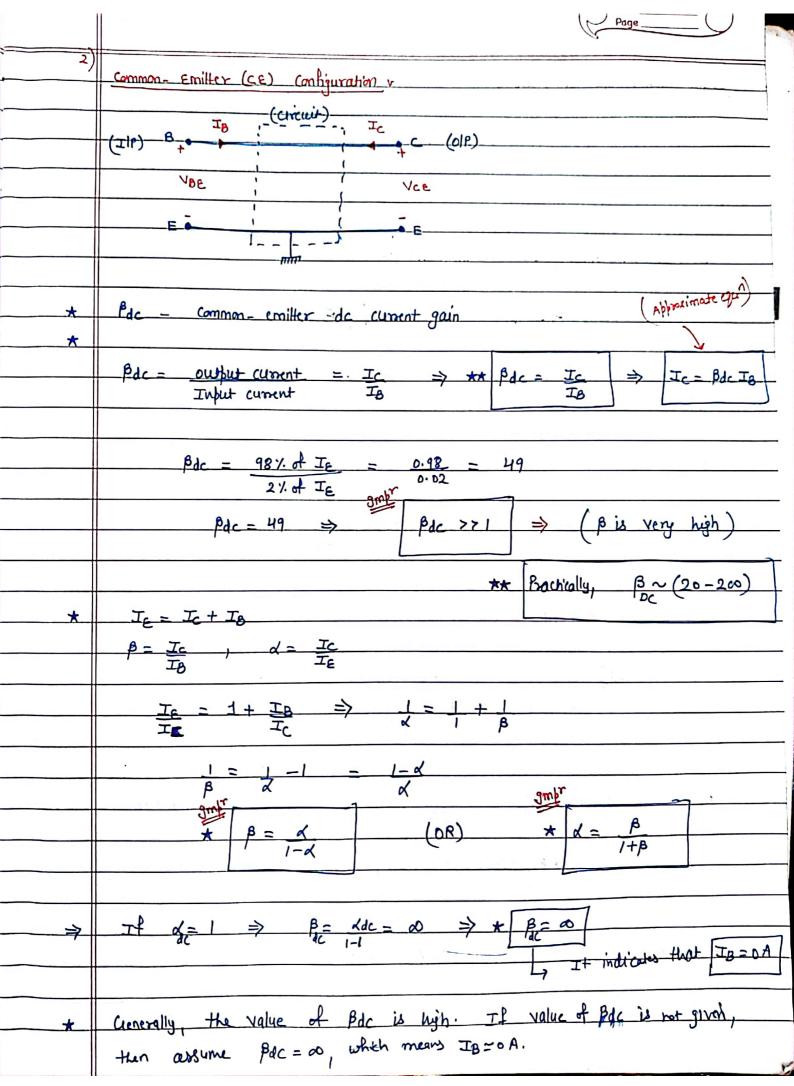
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| 1,000 | |
|-------|--|
| Exact | relation blu Tc + I8 . |
| | |
| | $\star I_{C} = \beta I_{B} + (1+\beta) I_{CBD}$ |
| | |
| | |
| | |
| 3) | Common-collector(CC) Configuration: |
| | (circuit) IB IE ITE |
| | (IIP) B TE (OIP) |
| 2011 | Vec |
| | C . |
| | |
| * | Yde - Common collector d.c. current gain. |
| * | |
| | Ydc = Ie = Ie = Ie = 50 IB 24. of Ie 0.02 Ie |
| | 4 1.01 TE 0.07 TE |
| | \star $\gamma_{dc} = 50$ |
| | |
| | 3mpr |
| ** | Yac > Pdc > Ldc |
| | |
| * | $\frac{1}{1}$ $\frac{1}$ |
| | JC + IA |
| | $\frac{1}{10} \frac{1}{10} \frac$ |
| | ** Ydc = 1+ pdc |
| | |
| * Y | dc = 1+ doc = 1-ddc + ldc = |
| | 1-600 |
| | 1-xdc /dc=1 |
| | 1-Kdc |
| | Scanned with CamScanner |