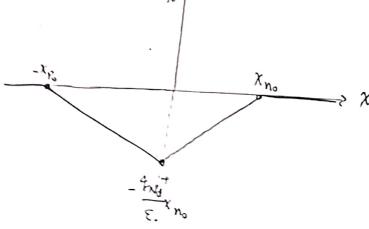


$$E_{\chi} = 9 \left(N_{d}^{\dagger} \times - N_{e}^{\dagger} \times \frac{N_{d}^{\dagger}}{N_{o}^{\dagger}} \times_{n_{o}} \right) = \frac{9}{\epsilon} N_{d}^{\dagger} \left(\chi - \chi_{n_{o}} \right) \circ \langle \chi \langle \chi_{n_{o}} \rangle$$

$$-EAE = \frac{1}{4} \frac{1}{N_{d}} A \chi_{n_{0}} + 9 N_{d} A \chi) \rightarrow E_{(n_{0})} - \frac{9}{E} \left(N_{0} \chi_{+} N_{d} \chi_{n_{0}} \right) - \chi_{e} \langle \chi \langle 0 \rangle \right)$$

$$= \frac{4}{E} \frac{N_{0}}{N_{0}} \left(\chi_{+} \chi_{p_{0}} \right) - \frac{7}{E} \langle \chi \langle 0 \rangle \right)$$



$$\frac{1}{2} \sum_{k=1}^{N_{p}} \frac{1}{2} \sum_{k=1}^{N_{p}} \frac{1}$$

$$= \frac{4}{\varepsilon} \left(\sqrt[4]{\frac{\chi_{R_0}}{2}} + N_{\alpha} \frac{\chi_{R_0}^{-1}}{2} \right) - \frac{4}{2\varepsilon} \left(\sqrt[4]{\chi_{R_0}} + \sqrt[4]{\chi_{R_0}^{-1}} \right)$$

$$\frac{2\sqrt{c}}{\frac{q}{4}} = N_{c} \frac{1}{N_{c}} + N_{c$$

$$\Rightarrow W = \frac{2\sqrt{\epsilon} \cdot \epsilon_{s}}{\sqrt{2} \cdot N_{d}} \frac{1 + \frac{N_{d}^{2}}{N_{a}}}{\sqrt{N_{a}}} - \frac{2\sqrt{\epsilon} \cdot \epsilon_{s}}{\sqrt{2}} \times \frac{N_{a} + N_{d}^{2}}{\sqrt{N_{a}} \cdot N_{d}^{2}} \left(\lambda_{s} \right)$$

(>

û

(2.

$$\begin{array}{c|c}
R_{S} & V_{i} \\
\hline
P_{S} & V_{i}
\end{array}$$

$$\begin{array}{c|c}
R_{S} & V_{i} \\
\hline
P_{S} & V_{i}
\end{array}$$

$$\begin{array}{c|c}
R_{S} & V_{i} \\
\hline
P_{S} & V_{i}
\end{array}$$

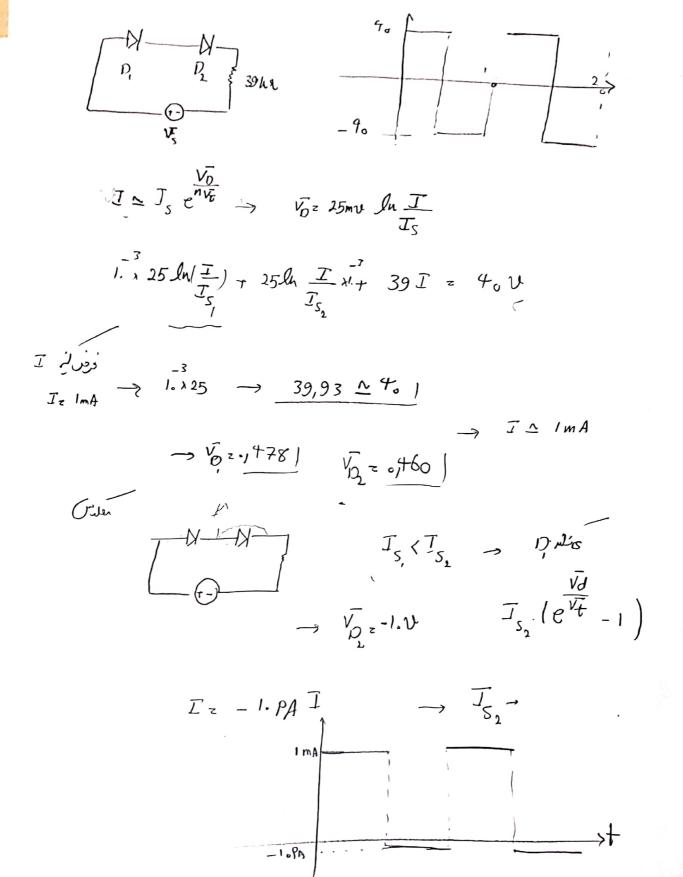
$$\begin{array}{c|c}
R_{S} & V_{i} \\
\hline
P_{S} & P_{$$

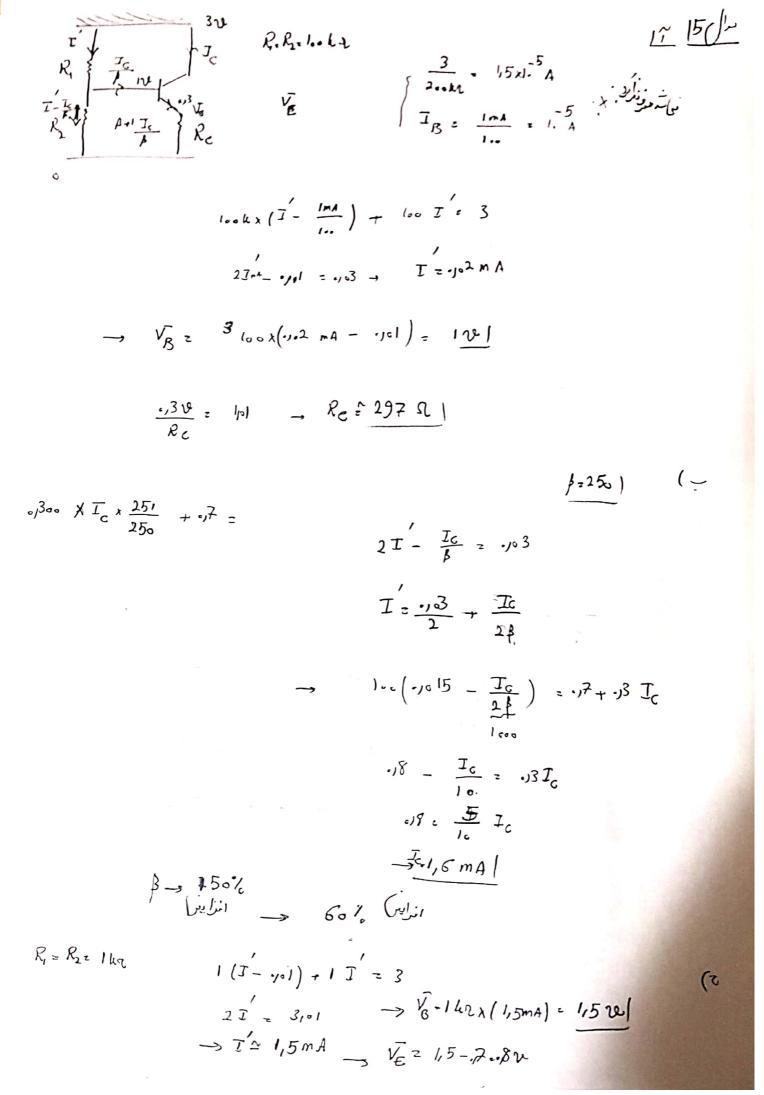
$$\frac{\mathcal{V}_{s} \cdot \mathcal{R}_{i_{1}}}{\mathcal{R}_{s} + \mathcal{R}_{i_{1}}} \qquad \frac{\mathcal{V}_{s}}{\mathcal{V}_{s}} = \frac{A_{s} \mathcal{R}_{l}}{\mathcal{R}_{s} + \mathcal{R}_{l}} \qquad \frac{\mathcal{V}_{i_{2}}}{\mathcal{V}_{i_{1}}} = \frac{A_{s} \cdot \mathcal{R}_{i_{2}}}{\mathcal{R}_{s} + \mathcal{R}_{i_{2}}} = \frac{A_{s} \cdot \mathcal{R}_{i_{2}}}{\mathcal{R}_{s} + \mathcal{R}_{i_{2}}}$$

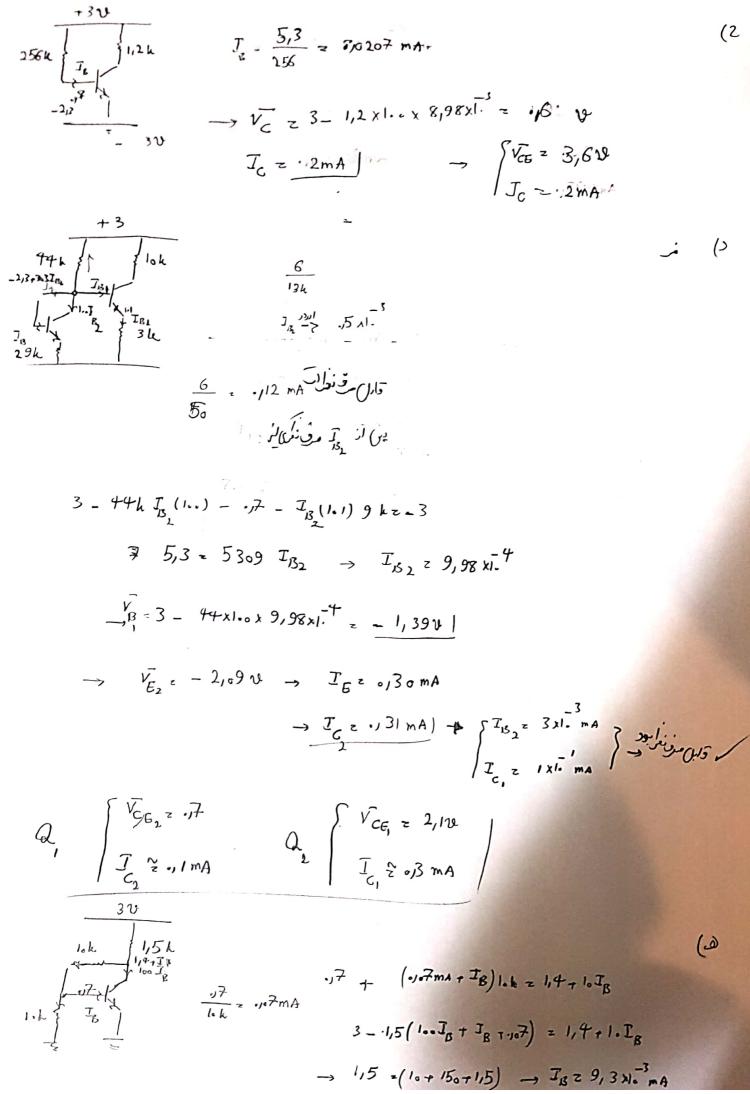
$$\frac{1}{R_{02}R_{1}} \rightarrow R_{02}R_{1}R_{2}R_{2}R_{3}R_{4}R_{5}R_{1}$$

$$\frac{R_{11}}{R_{11}R_{5}} \left(1 - R_{11} + R_{11} + R_{12} + R_{12}$$

P







Scanned by CamScanner

$$\frac{3}{21}$$
85hI + 65(I + \overline{I}_{6}) = 3V
$$- 150I = 3V - 65I_{6}$$
85I - $\sqrt{7}$ = $10 \times 101 \cdot \overline{I}_{6}$

$$\rightarrow \begin{cases} 150I + 65I_{8} = 3 \\ 85I' - 1010I_{8} = 97 \end{cases} \rightarrow \begin{cases} I = .102 \text{ mA} \\ I_{8} \neq 1. \text{ mA} \end{cases}$$