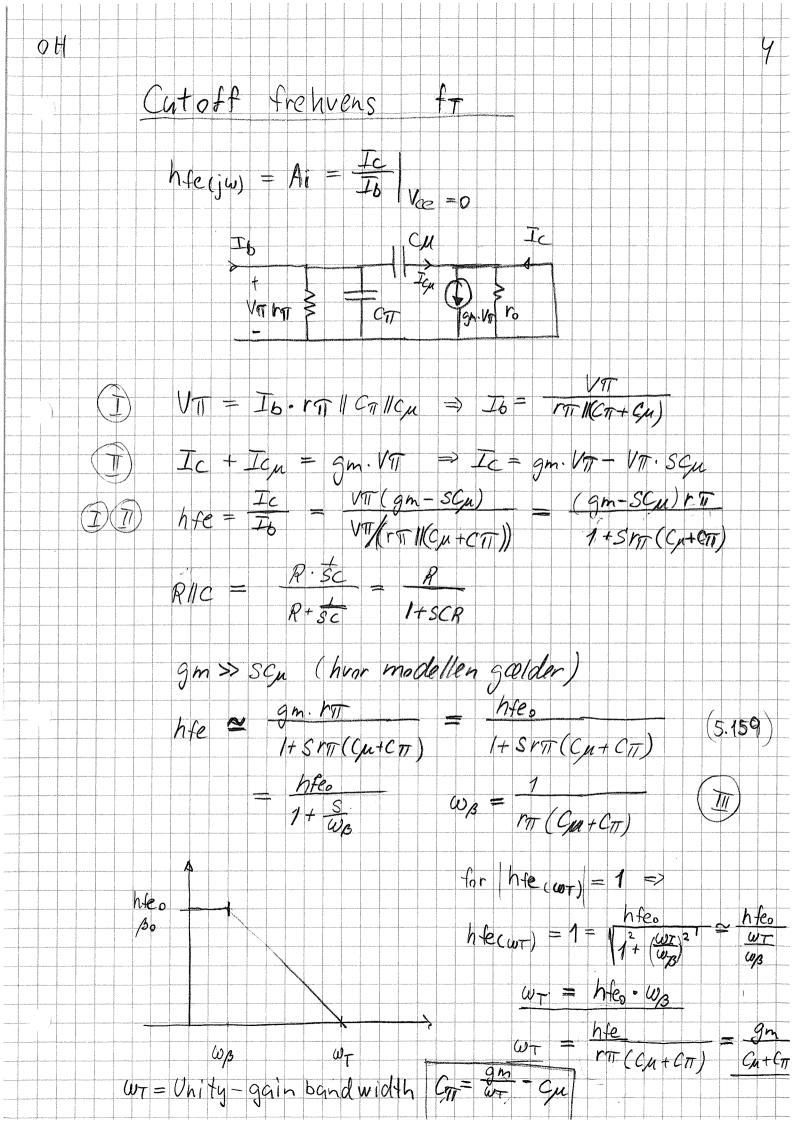
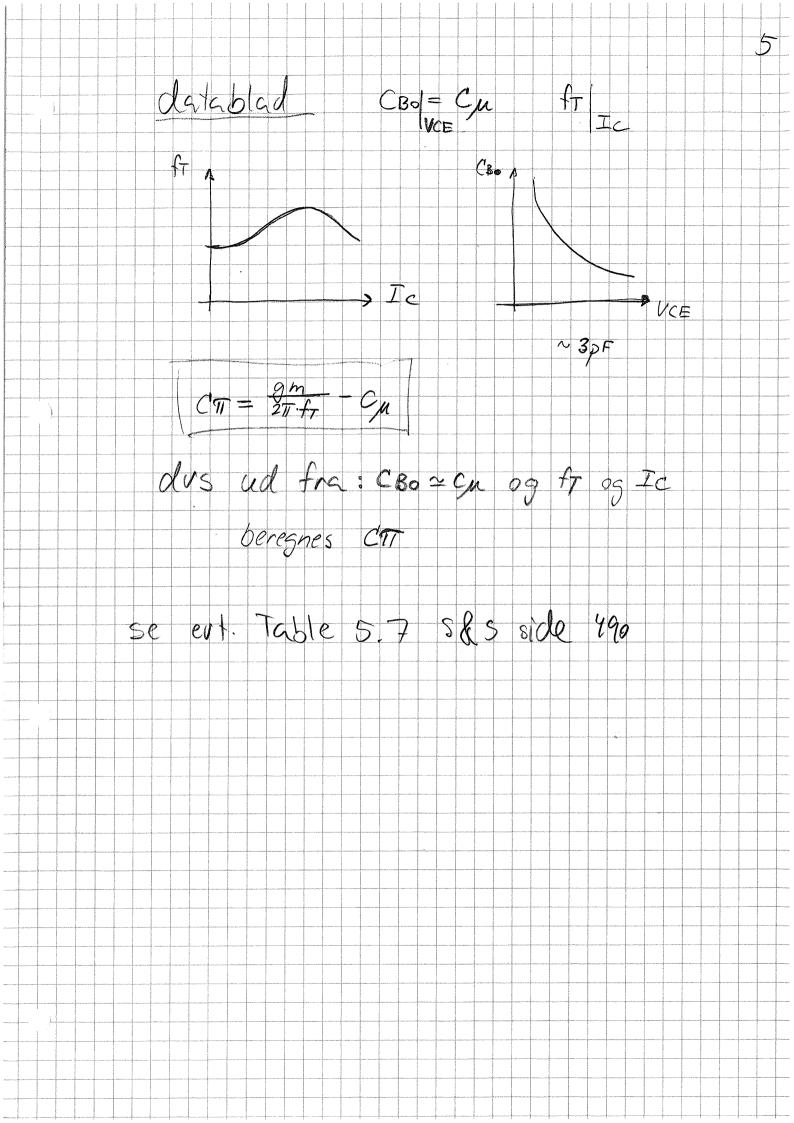


Sammenhæng mellem h-parametre og hybid TI e 3 hoe V2 V1

hre. V2 hfe. T6 gm. VTT Ib. BAC VI = hie . Ib + hre · V2 $V_2 = V_{ce}$ Ic = hfe · Ib + hoe · Va V = Vbe rx = hie - ro BAC = hie $C\pi + Cu = \frac{gm}{\omega\tau} = \frac{Ic}{V_7 \cdot 2\pi \cdot f_7}$ CM = CBO I datablad findes folgende: I arbejdspunhtet Ic, VCE $h_{1}e = \frac{Jc}{Jb}$ hie C30 rx er overgangs modstanden fra Basis terminaten til den out tive basis. Stornelsesordenen 10-100-a Kan findes ud fra: rx = hie - hie - rx Kan være svær at beregne da hie og hte ikke Kendes nojagtigt, aflæsninger fra Kurver ofte for unojagtive og van medtore af rx far forhert varidi - enda negativ-hvilhet inne han lade siggore





$$V_{S} \bigcirc R_{B} \stackrel{\text{R}}{\Rightarrow} V_{TT} \stackrel{\text{C}}{\Rightarrow} C_{TT} \bigcirc C_{TT} \bigcirc C_{TT} \stackrel{\text{C}}{\Rightarrow} R_{L}^{'} \lor o$$

$$T_{S} \bigcirc R_{TT} \stackrel{\text{C}}{\Rightarrow} V_{TT} \stackrel{\text{C}}{\Rightarrow} C_{TT} \bigcirc C_{TT}$$

$$R\pi = r_{\pi} / (r_X + R_S / R_B)$$
 $I_S' = \frac{V_S \cdot R_B}{(R_S + R_B)(r_X + R_B / R_S)}$

1
$$Is' = V_{\pi} \left(\frac{1}{R\pi} + SC_{\eta \tau} \right) + (V_{\pi} - V_{\sigma})SC_{\mu} \Rightarrow V_{\pi} = \frac{I_{s}' + V_{\sigma} \cdot SC_{\mu}}{I_{\sigma}} + S(C_{\mu} + C_{\pi})$$

(2)
$$gm \cdot V_{TT} + \frac{V_0}{RL'} + (V_0 - V_{TT})SC_M = 0 \Rightarrow V_0 = \frac{V_{TT}(SC_M - gm)}{L} + SC_M$$

$$\begin{array}{ll}
\boxed{1} \rightarrow \boxed{2} & V_o = \frac{(I_S' + V_o SC_H)(SC_H - g_m)}{(R_T + S((\mu + C_T))(R_L' + SC_H))} \\
V_o = \frac{(I_S' + V_o \cdot A)B}{N} \Rightarrow V_o \cdot N - V_o \cdot A \cdot B = I_S' \cdot B \Rightarrow V_o = \frac{I' \cdot B}{N - A \cdot B} \\
V_o = \frac{I'(SC_H - g_m)}{(R_T + S(C_H + C_T))(R_L' + SC_H) - SC_H(SC_H - g_m)}
\end{array}$$

$$\frac{\left(1-\frac{SC_{M}}{gm}\right)}{S^{2}C_{M}C_{TT}R_{TT}\cdot R_{L}+SR_{TT}\left(C_{TT}+C_{M}\left(1+gm\cdot R_{L}^{2}+\frac{R_{L}^{2}}{R_{TT}}\right)+1}{b_{2}}$$

$$= A_{M} \cdot \frac{1 - g_{m}}{b_{2} S^{2} + b_{1} S + 1}$$

HF1

