

BJT Characteristics (H.1)

20170103

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References

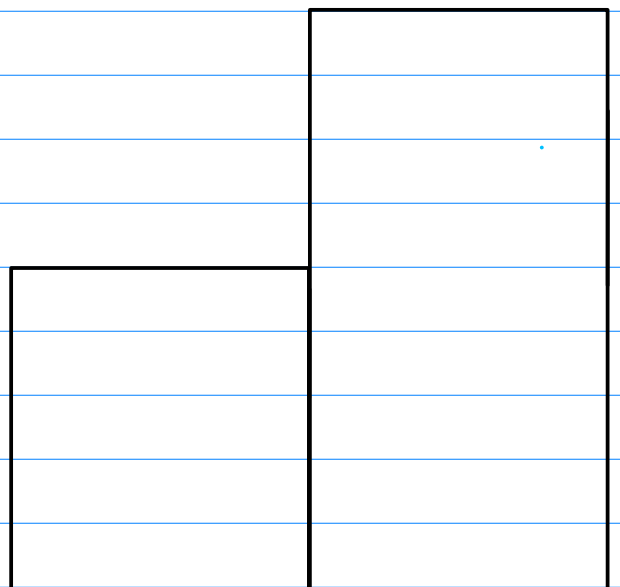
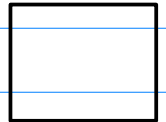
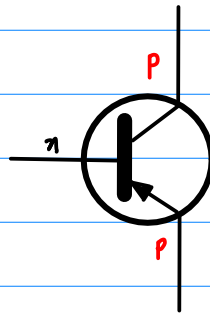
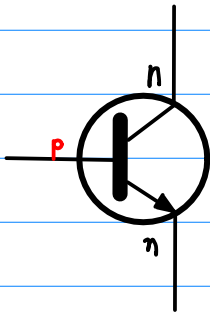
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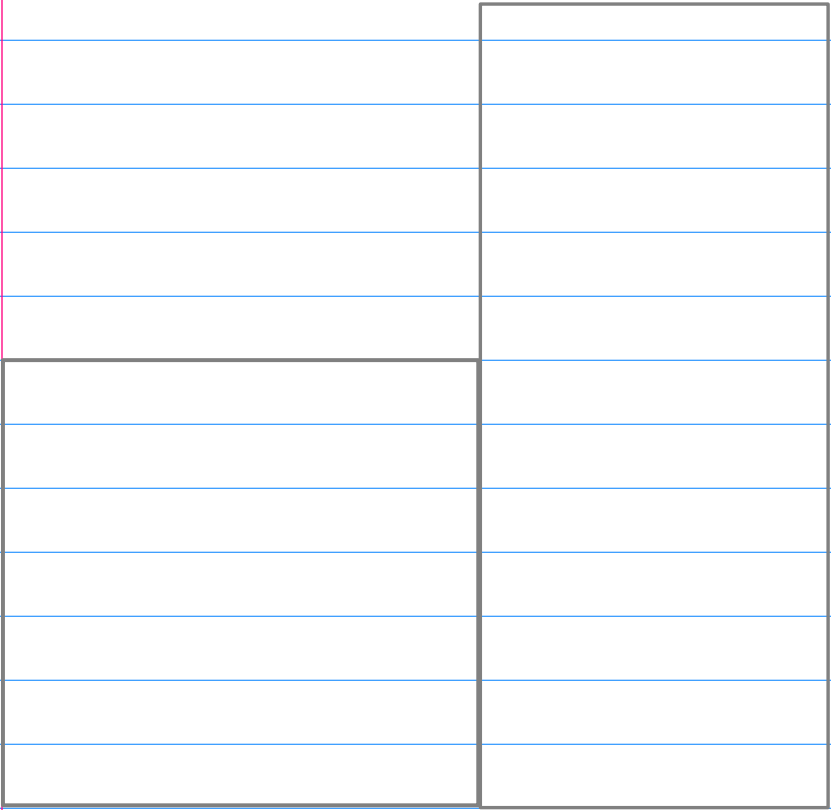
[1] Floyd, Electronic Devices 7th ed

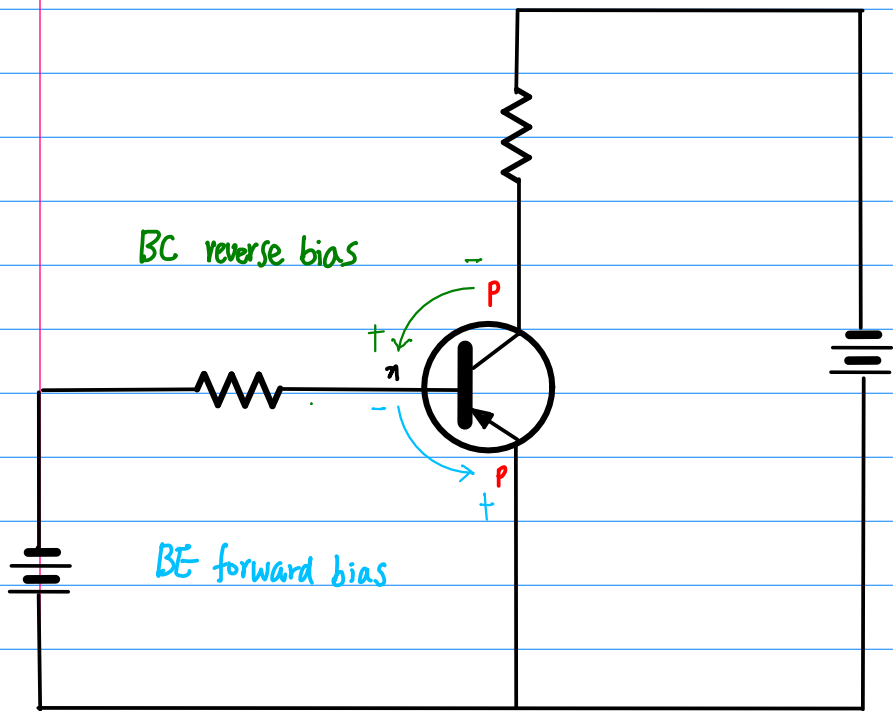
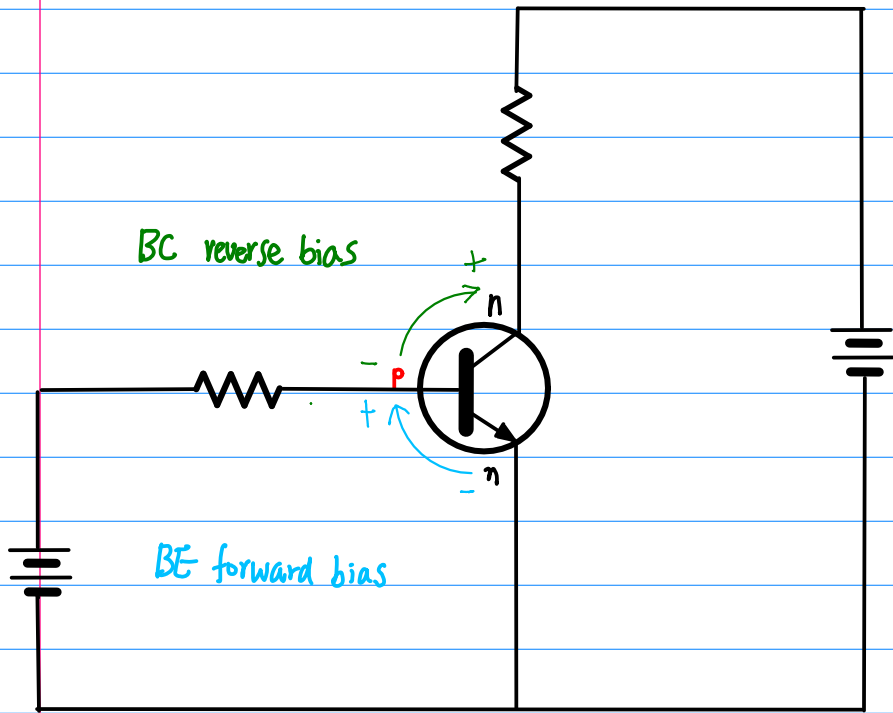
[2] Cook,

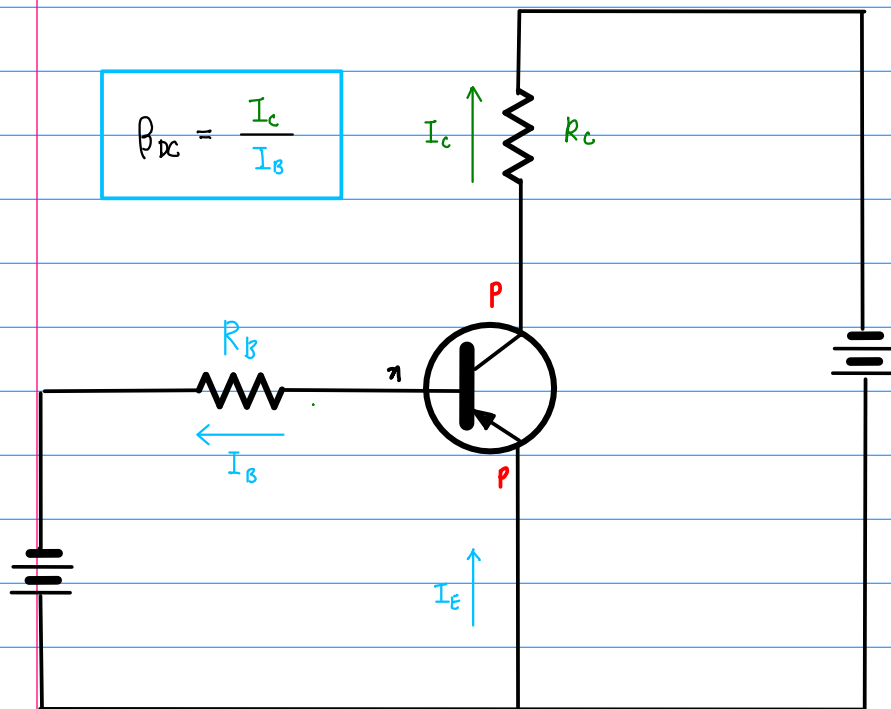
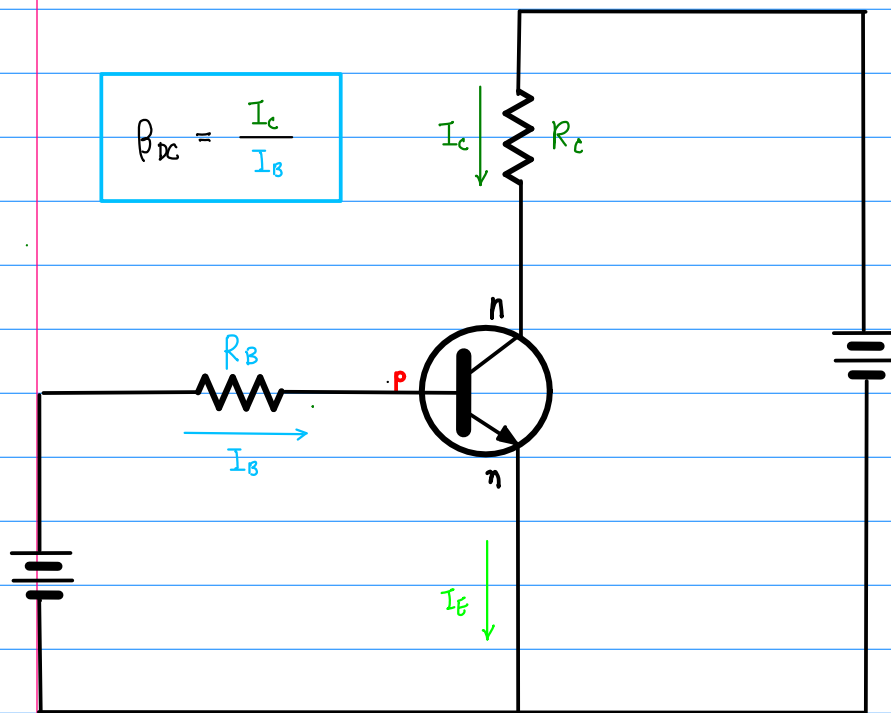
[2] en.wikipedia.org











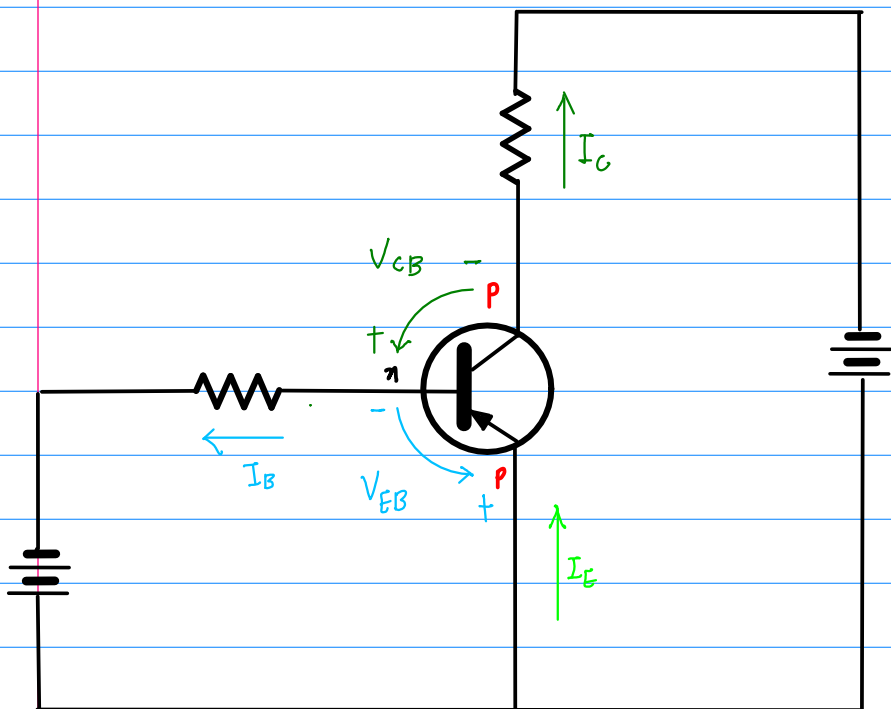
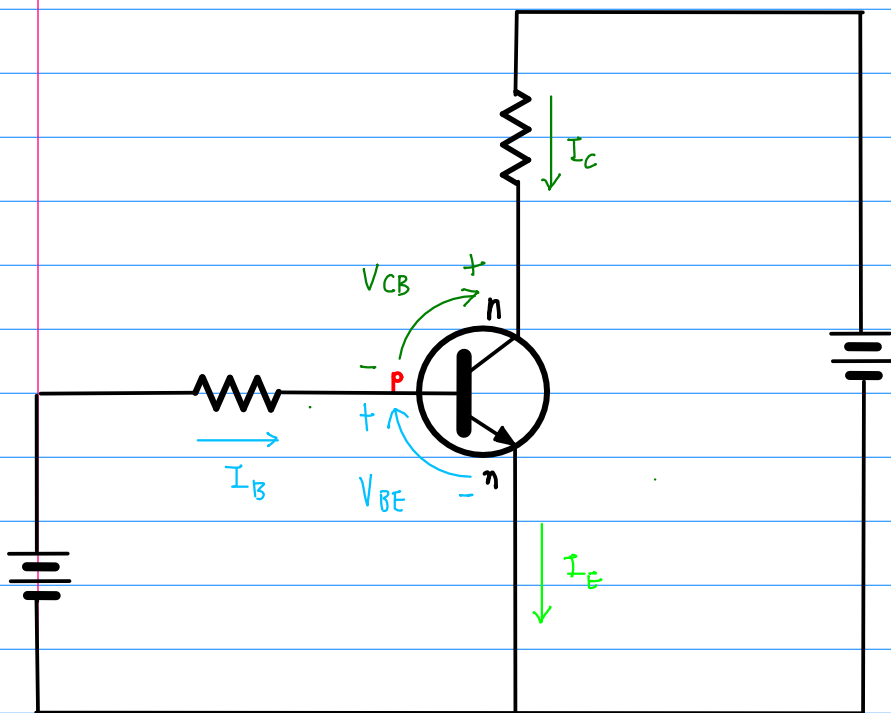
$$\beta_{DC} = \frac{I_c}{I_B}$$

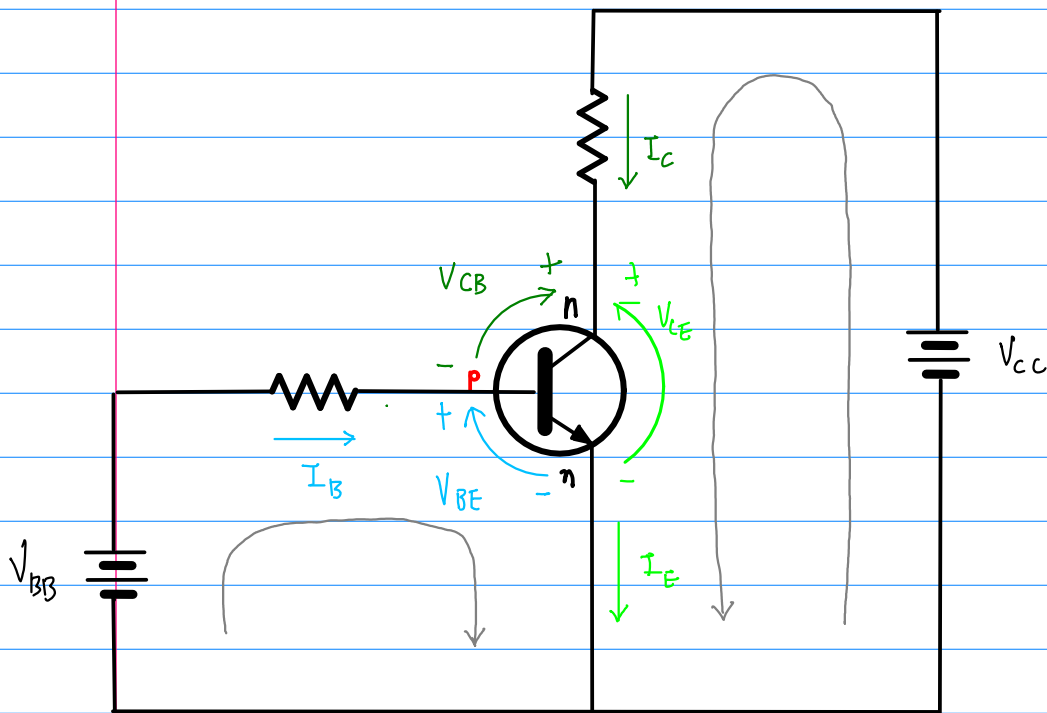
20 ~ 200

$$h_{FE} = \beta_{DC}$$

$$\alpha_{DC} = \frac{I_c}{I_E}$$

0.95 ~ 0.99





$$V_{BB} = I_B R_B + V_{BE}$$

$$V_{CC} = I_C R_C + V_{CE}$$

$$I_B = \frac{V_{BB} - V_{BE}}{R_B}$$

$$I_C = \frac{V_{CC} - V_{CE}}{R_C}$$

$$V_{CE} = V_{CC} - I_C R_C$$

