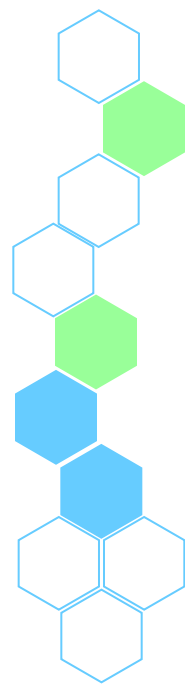


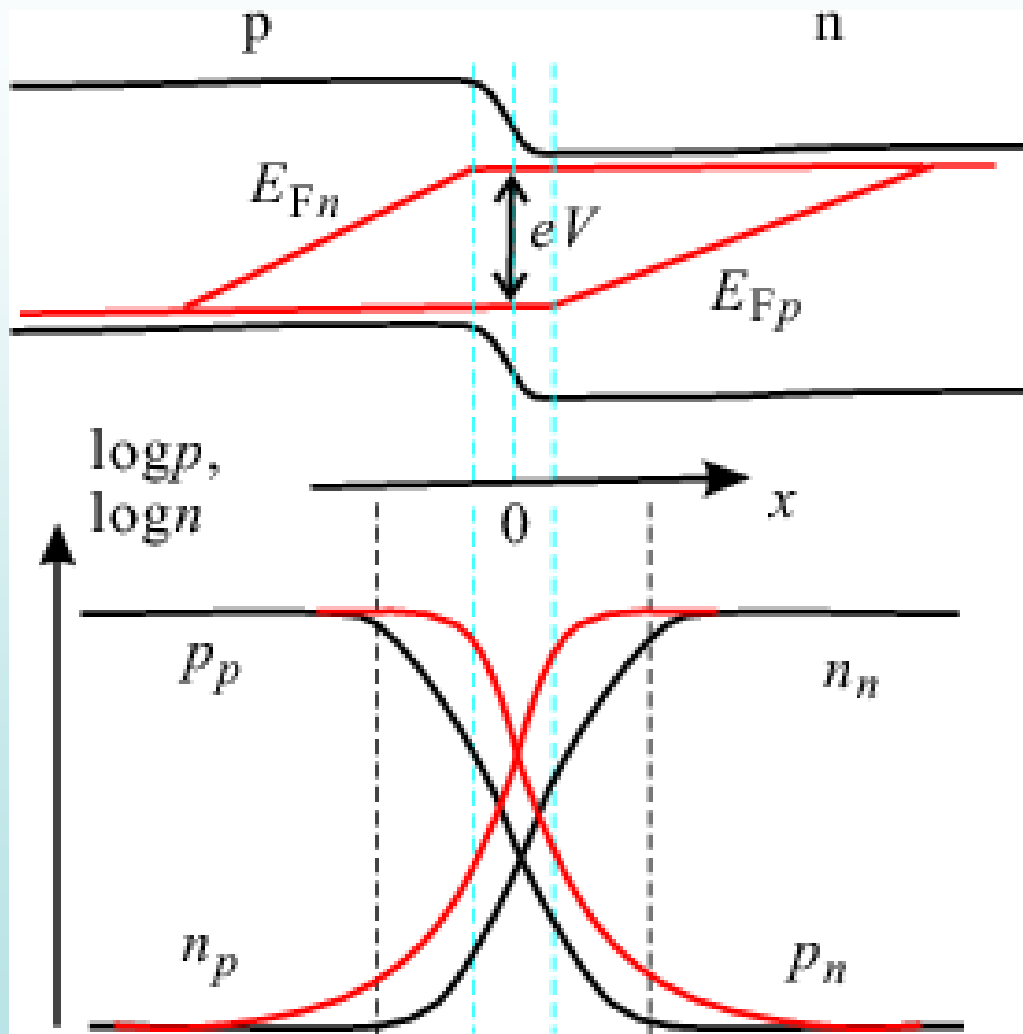
「半導体」第9回

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勝本信吾





準フェルミ準位

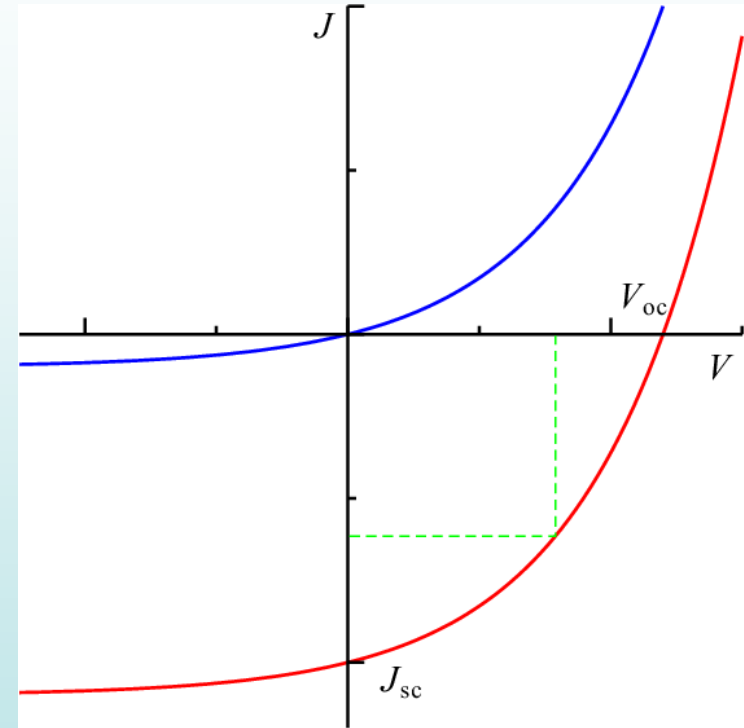
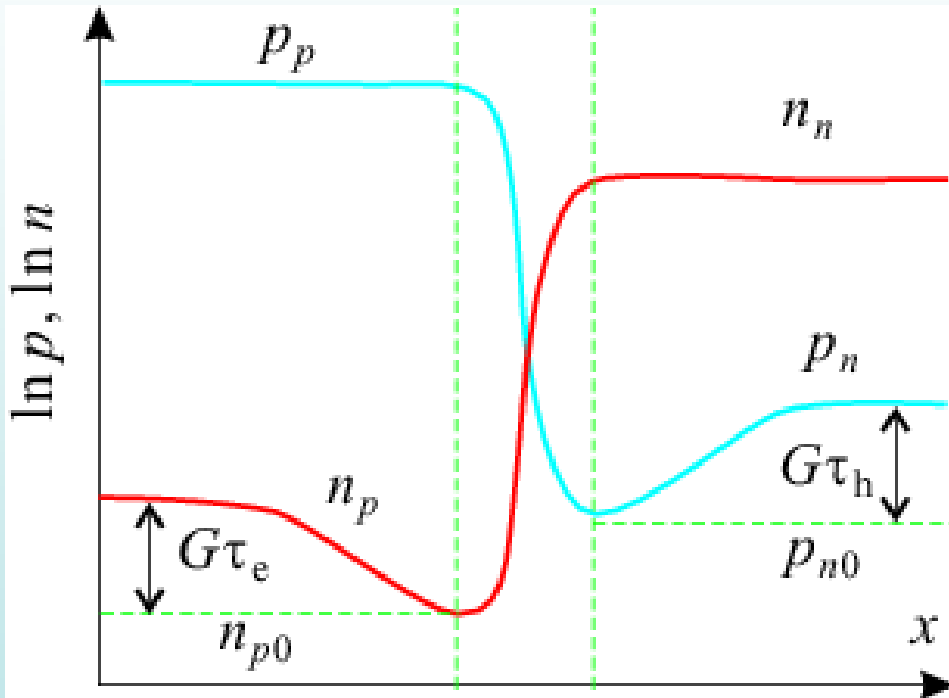


$$E_{Fn} \equiv E_i + k_B T \ln \left(\frac{n}{n_i} \right),$$

$$E_{Fp} \equiv E_i - k_B T \ln \left(\frac{p}{n_i} \right).$$

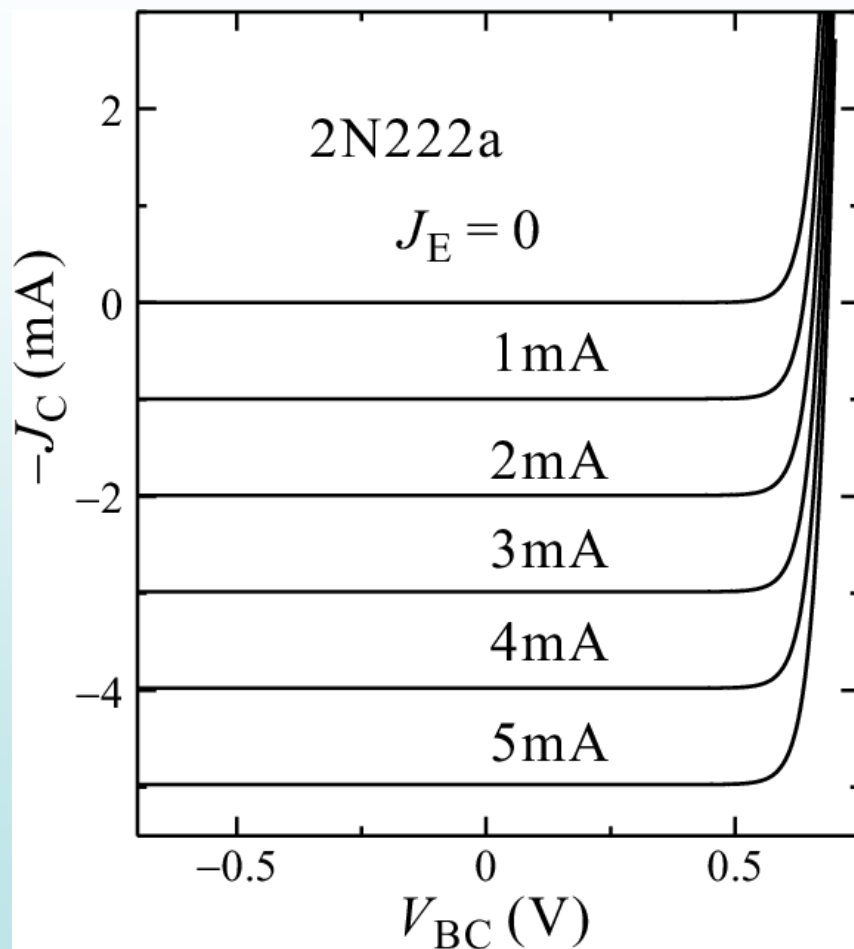
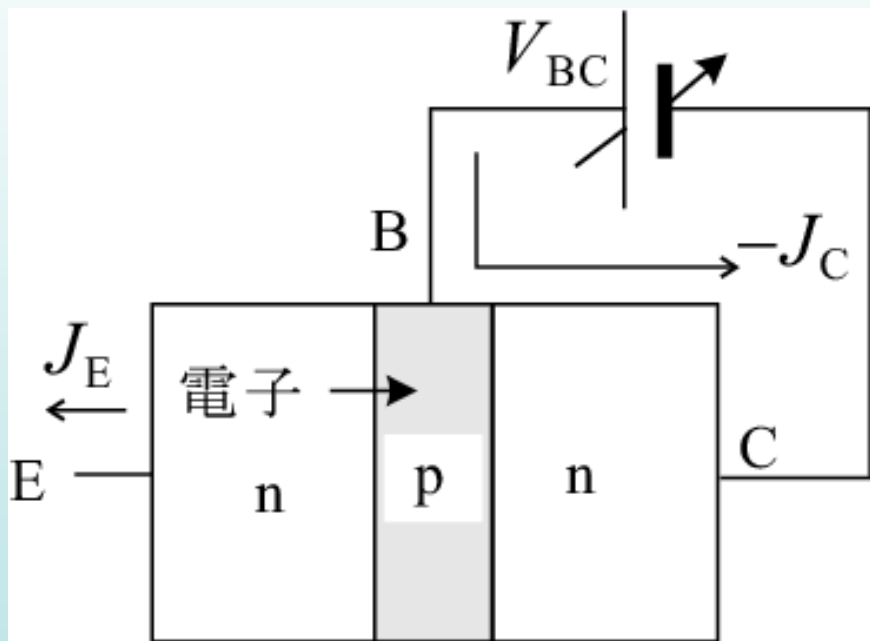


Solar cell (injection of minority carriers)



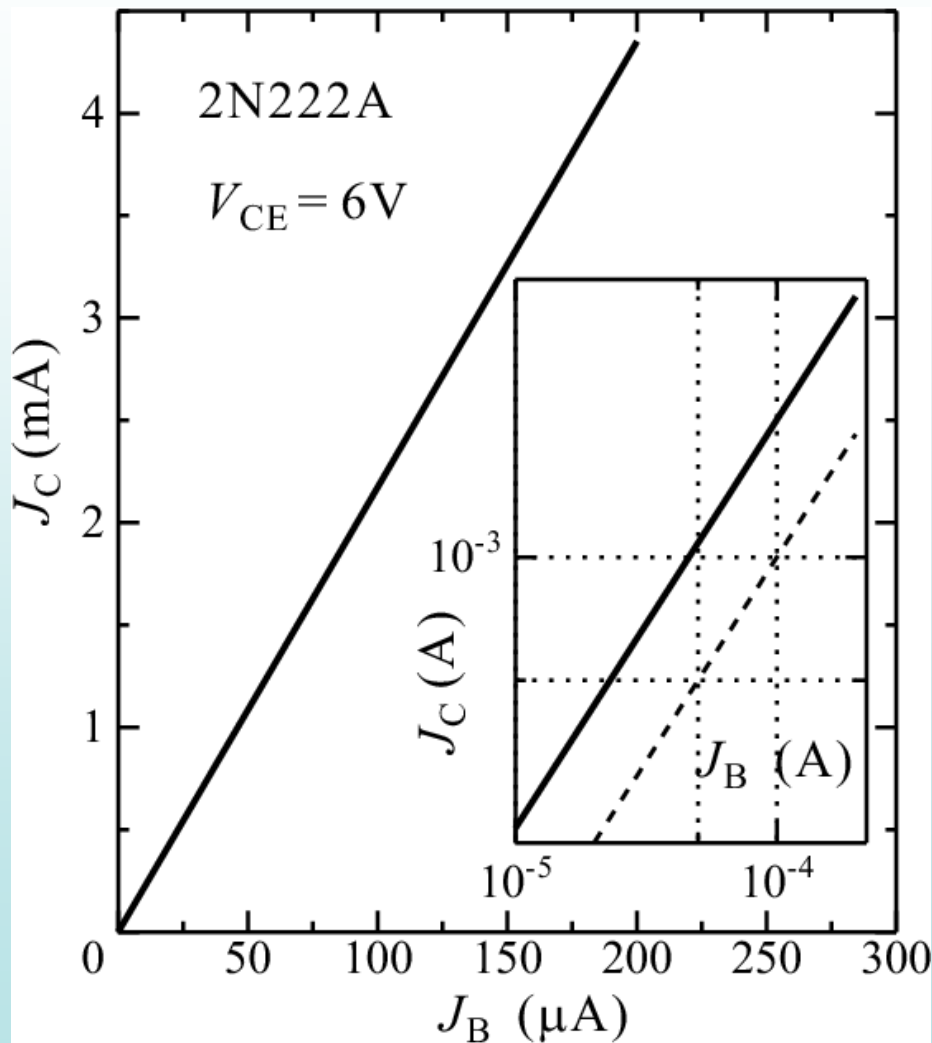
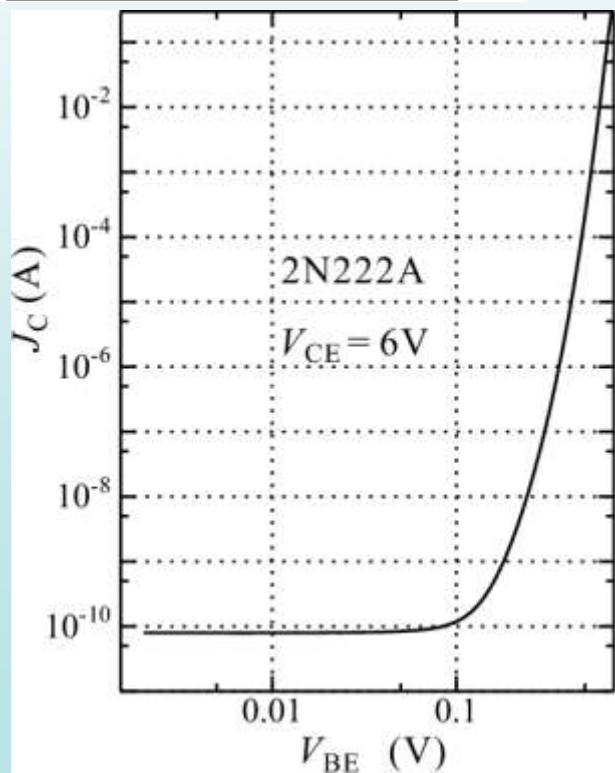
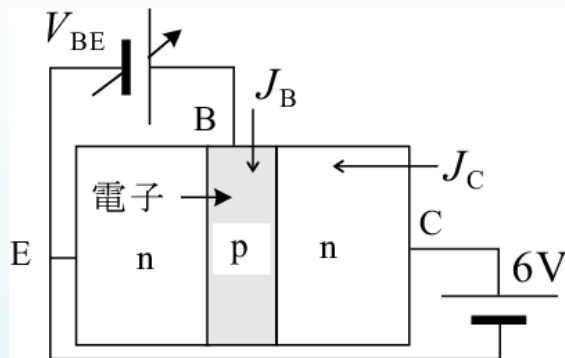


接合トランジスタの特性

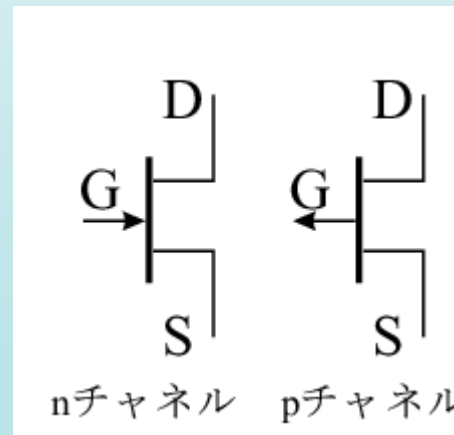
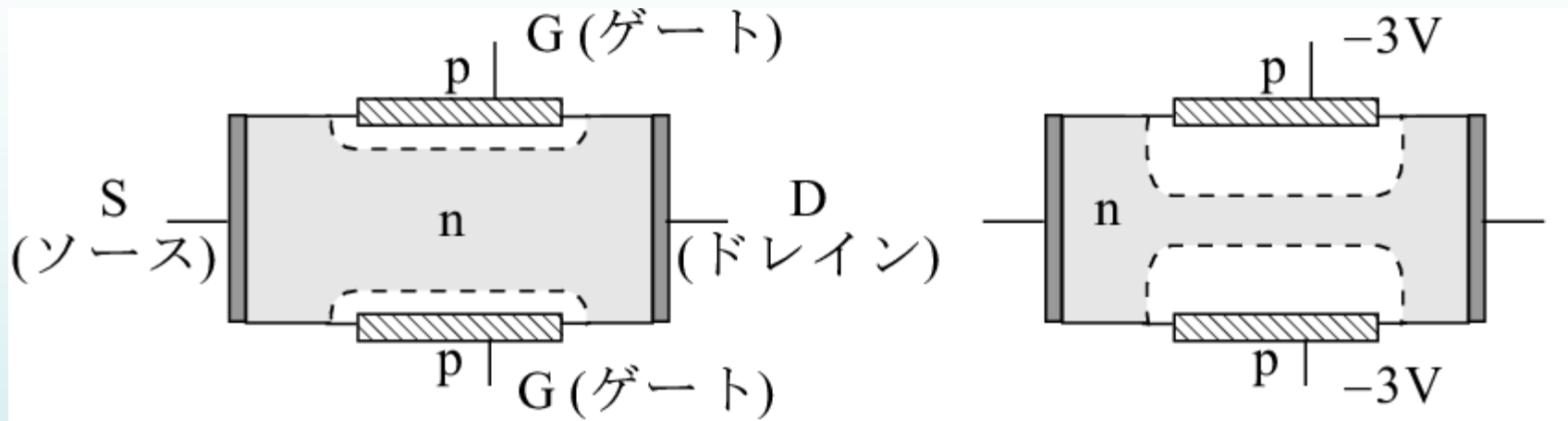




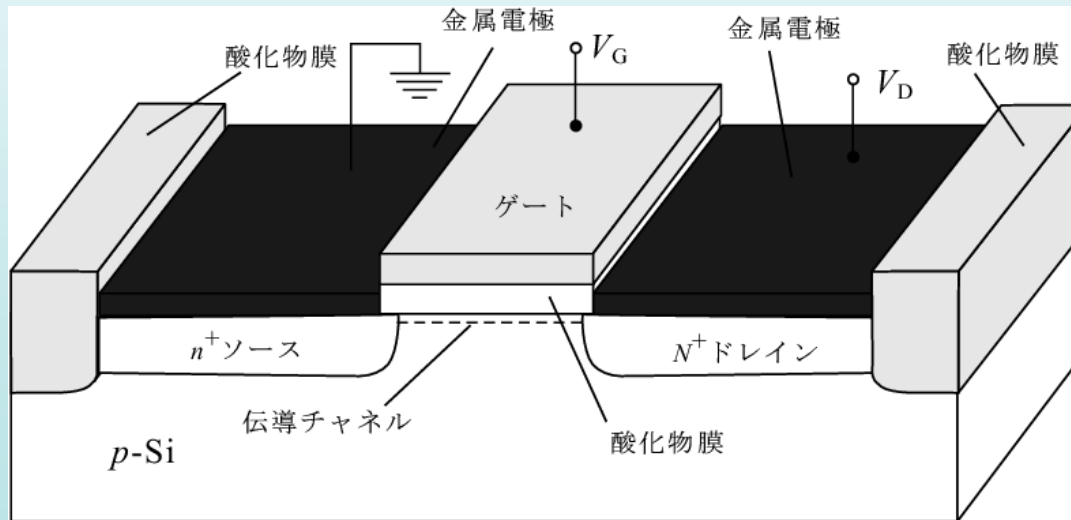
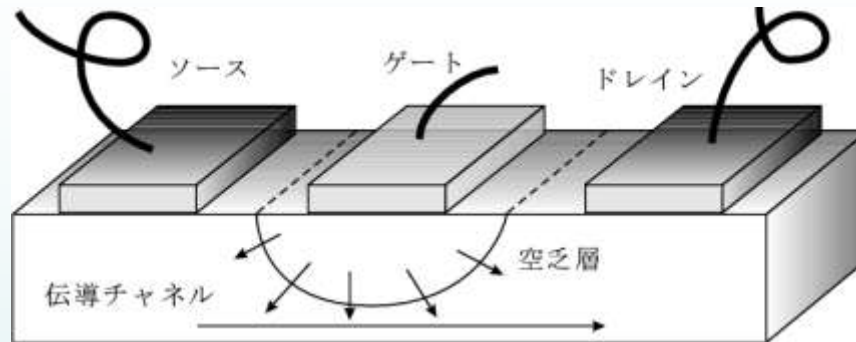
接合トランジスタの特性(2)



JFET



MESFET, MOSFET



E_g vs a

