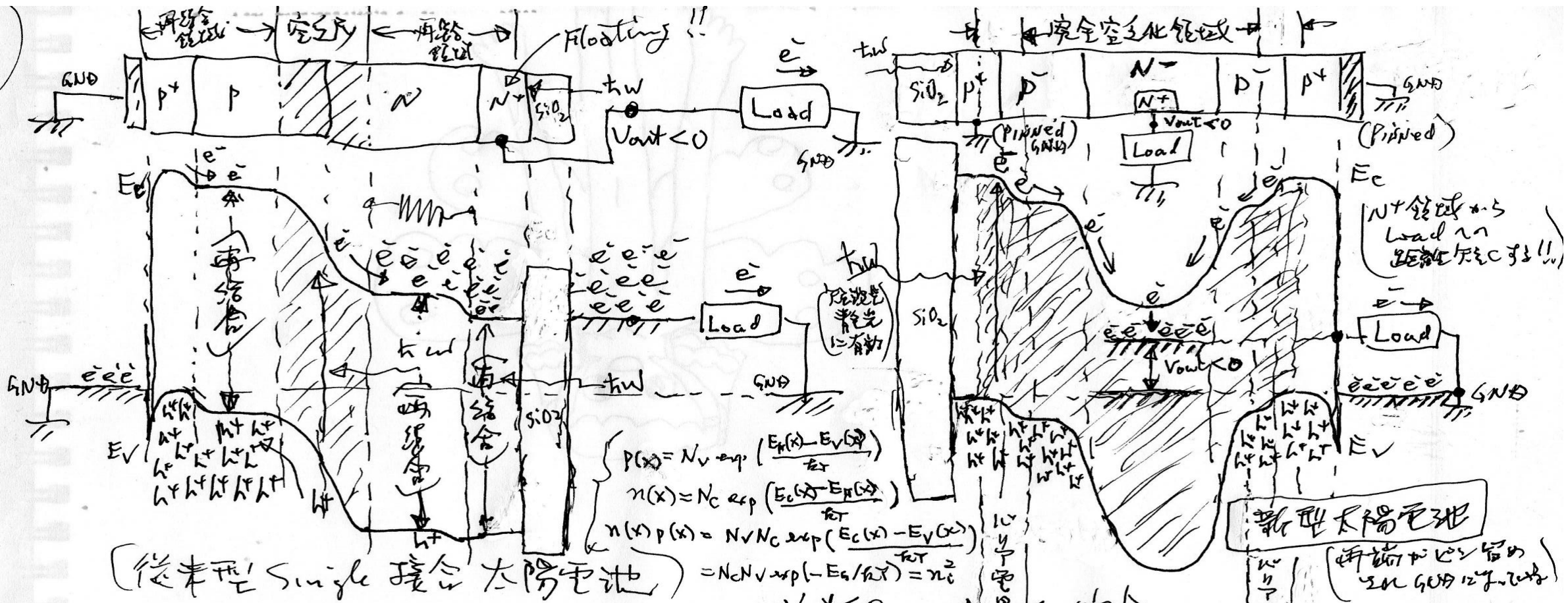
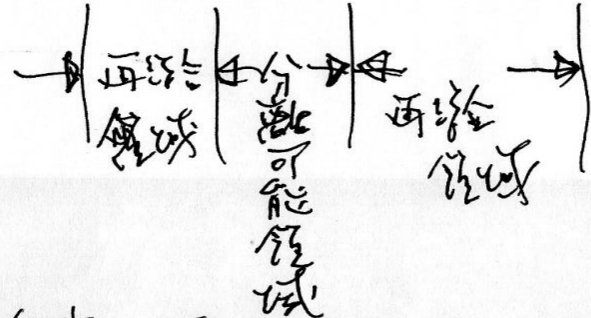


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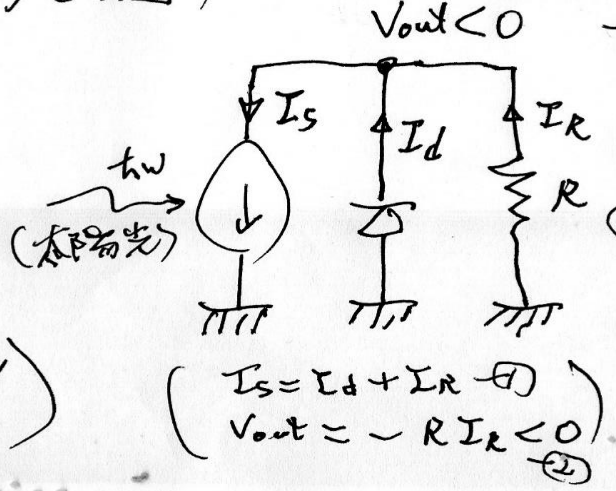


(従来型 Single 接合太陽電池)

新型太陽電池



（p+ の分離可能領域が狭い!!  
空乏層領域が広い!!）



③  $I_d = I_0 \left\{ \exp\left(-\frac{V_{out}}{kT}\right) - 1 \right\}$  (順方向電流)

④  $I_0 = (eA) \left[ \frac{D_e n_{p0}}{L_e} + \frac{D_h p_{n0}}{L_h} \right] = i_0 \exp\left(-\frac{E_g}{kT}\right)$

$$\left\{ \begin{aligned} n_{p0} &= n_i / N_A = \frac{N_c N_v}{N_A} \exp(-E_g/kT) \\ p_{n0} &= n_i / N_D = \frac{N_c N_v}{N_D} \exp(-E_g/kT) \end{aligned} \right.$$