

pn-二極體 平衡

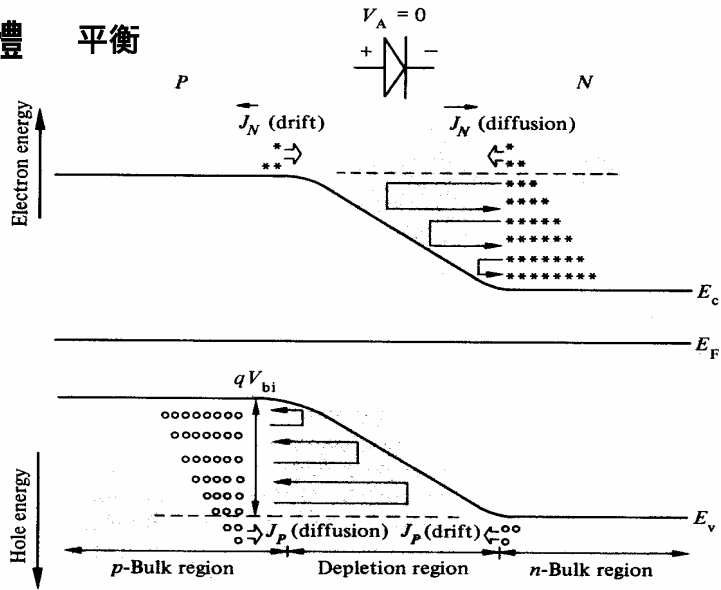


Fig. 3.1 Thermal equilibrium energy band diagram.

pn-二極體 順向偏壓

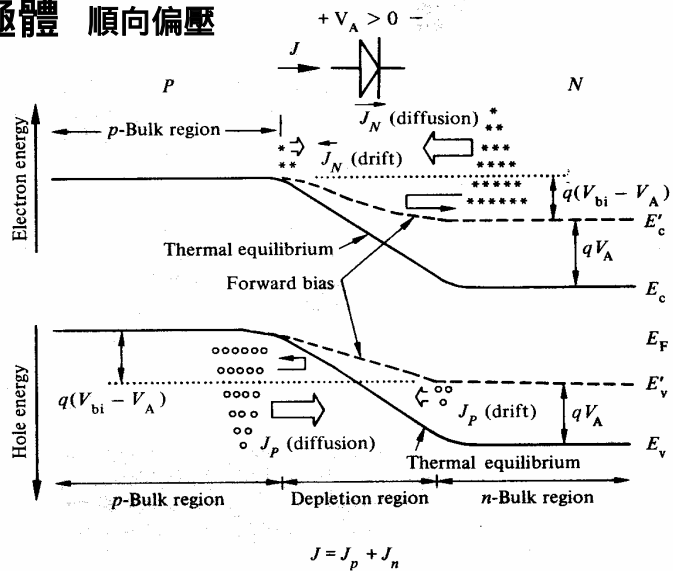


Fig. 3.3 Energy band diagram for forward bias and at thermal equilibrium.

pn-二極體 逆向偏壓

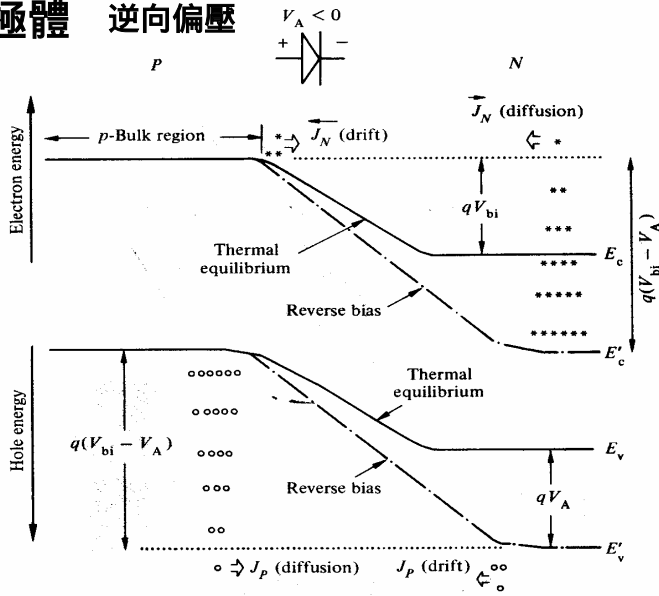
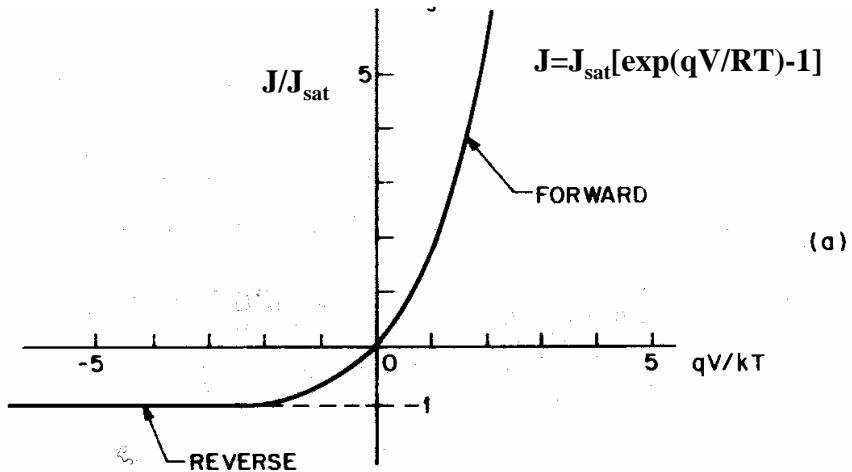
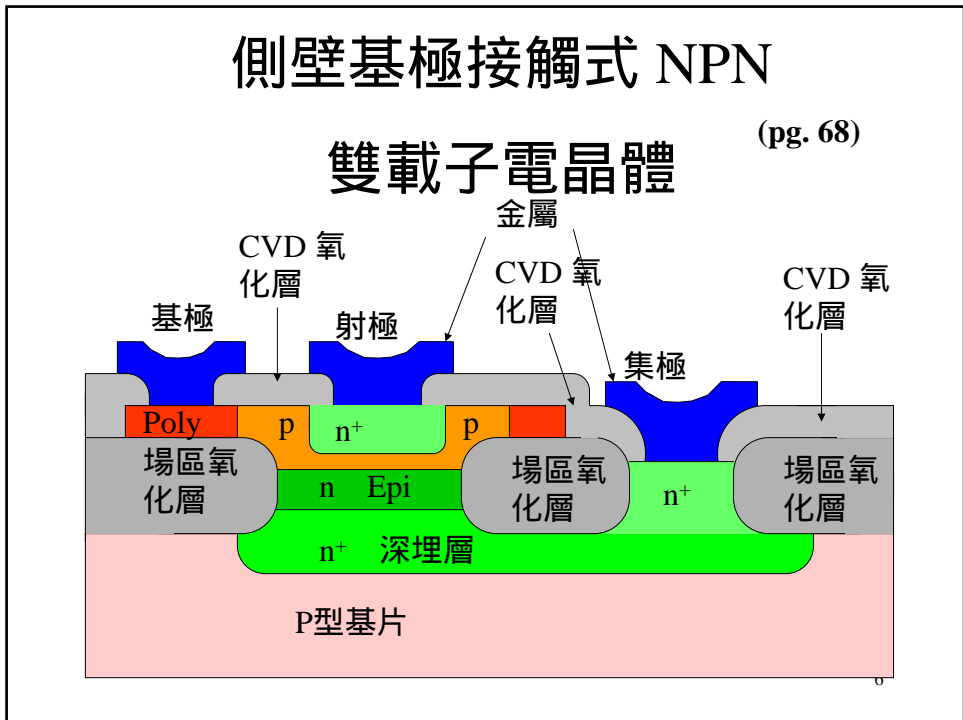
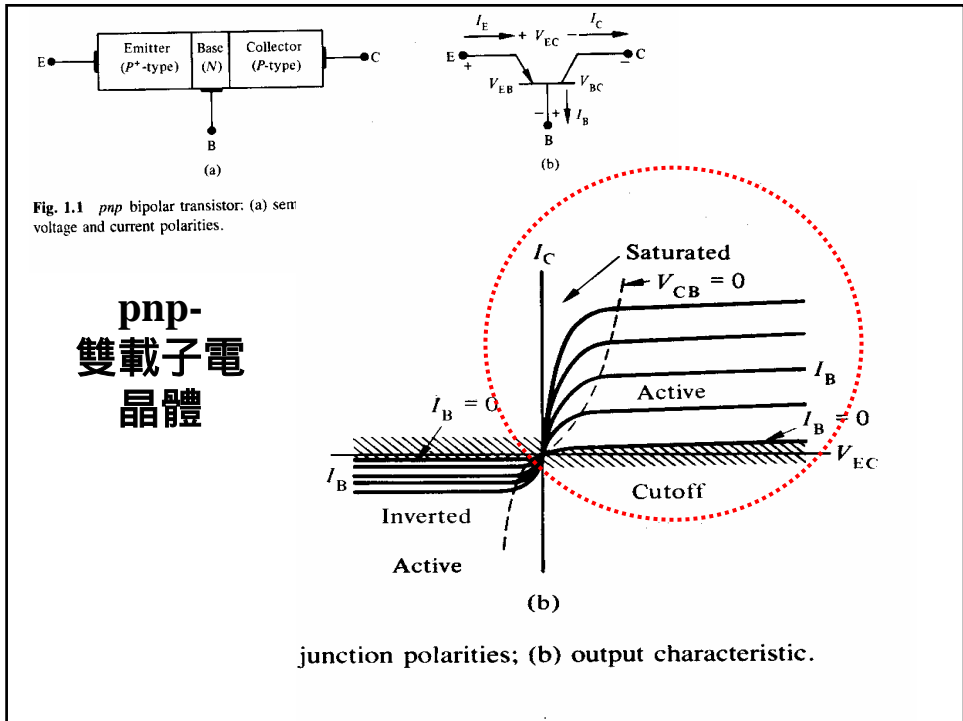


Fig. 3.4 Energy band diagram for reverse bias and at thermal equilibrium.

二極體之I-V曲線



(a)



太陽能電池

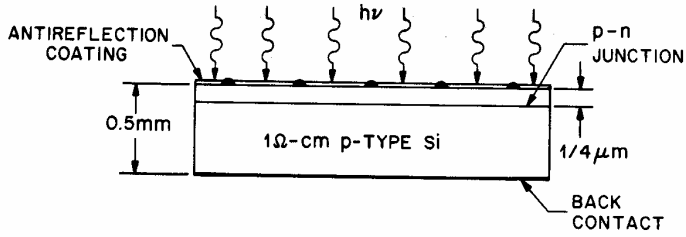
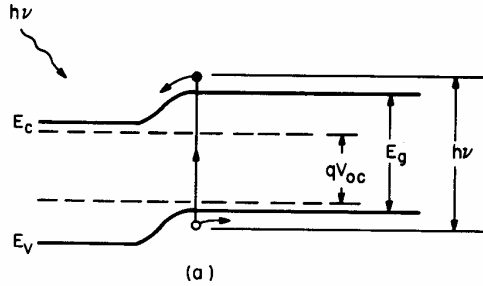
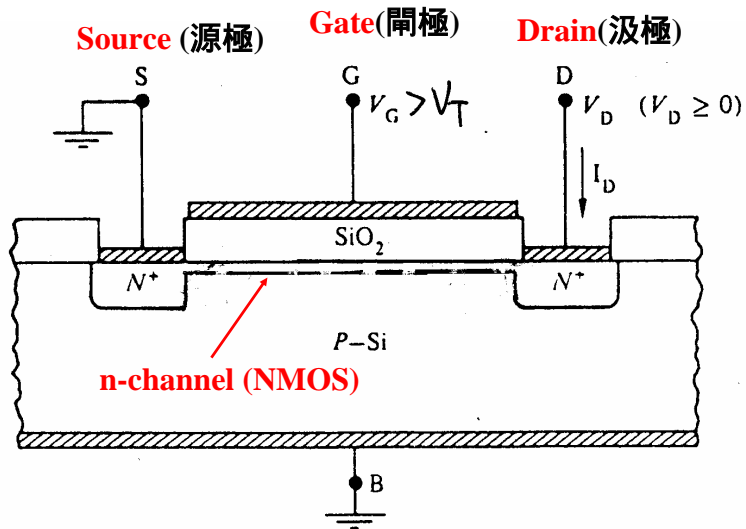


圖 39 矽 p-n 接面太陽電池。



MOSFET

金氧半 場效應電晶體



MOSFET

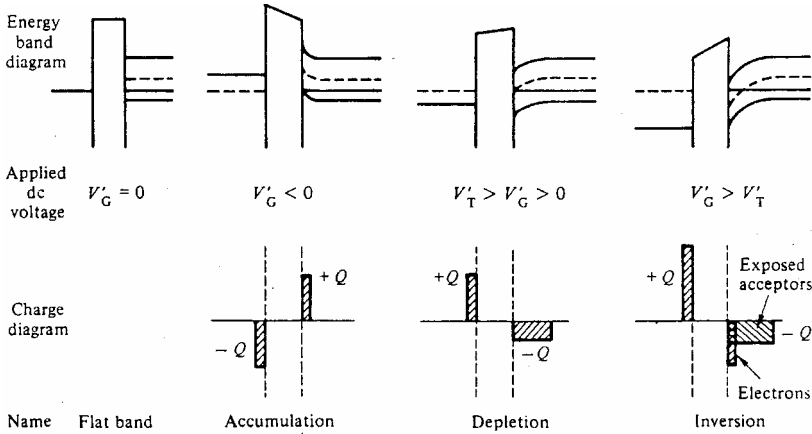


Fig. 2.5 Energy band and block charge diagrams for a p-type device under flat band, accumulation, depletion, and inversion conditions.

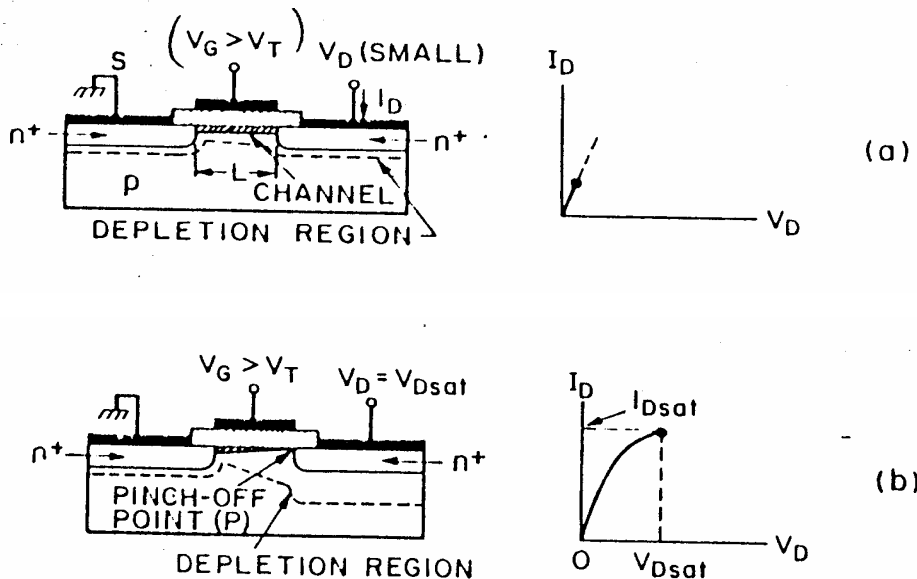
Modular series on solid state devices

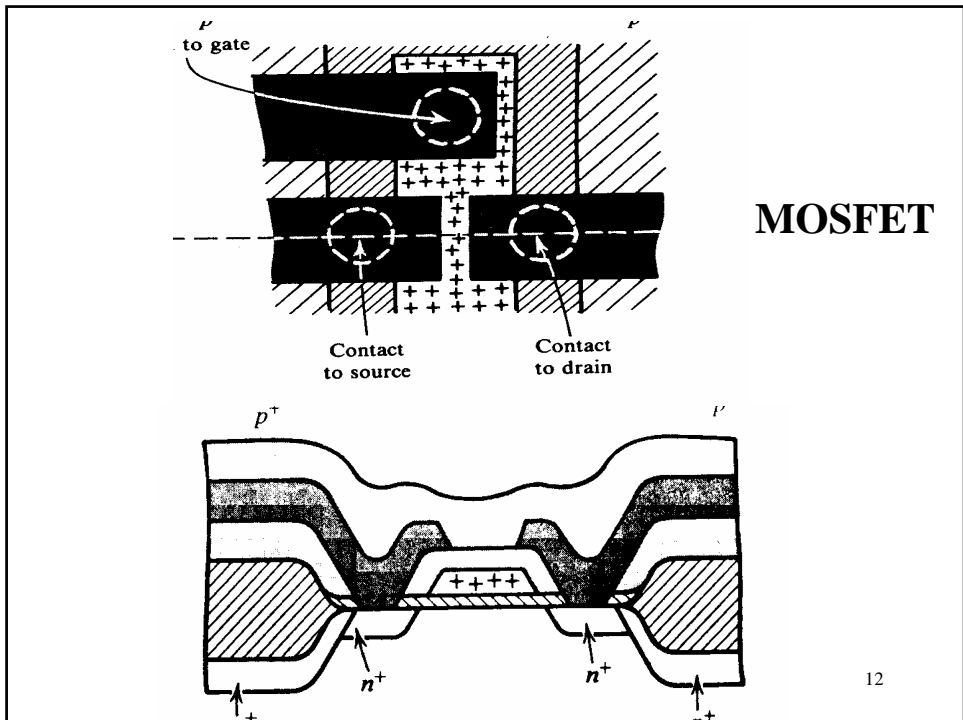
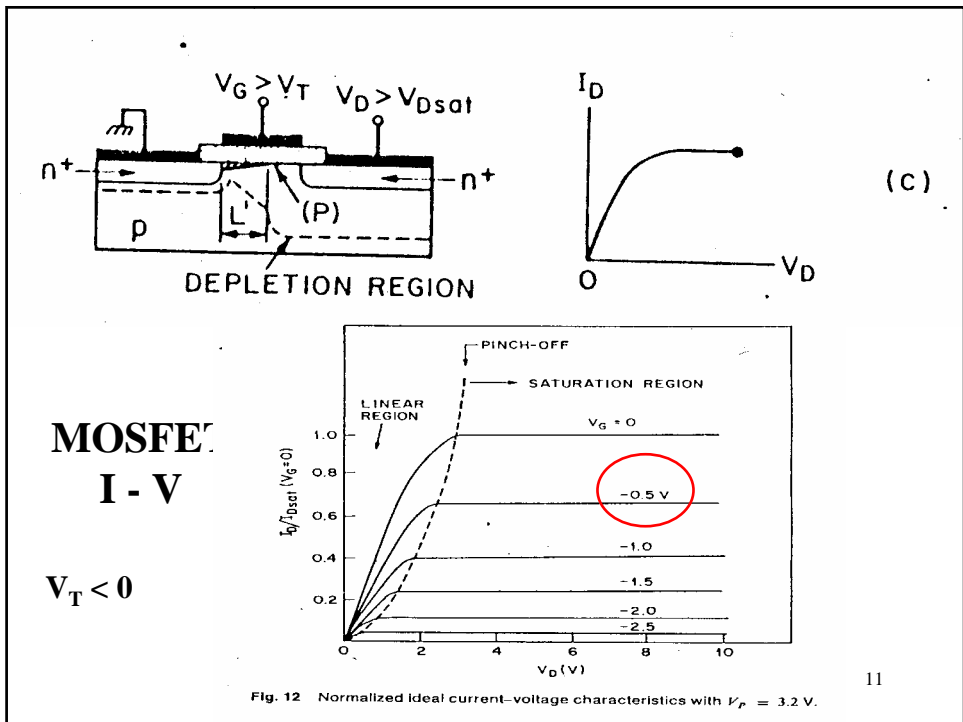
***normally-on MOS: channel exists as MOS is formed**

$$V_T < 0$$

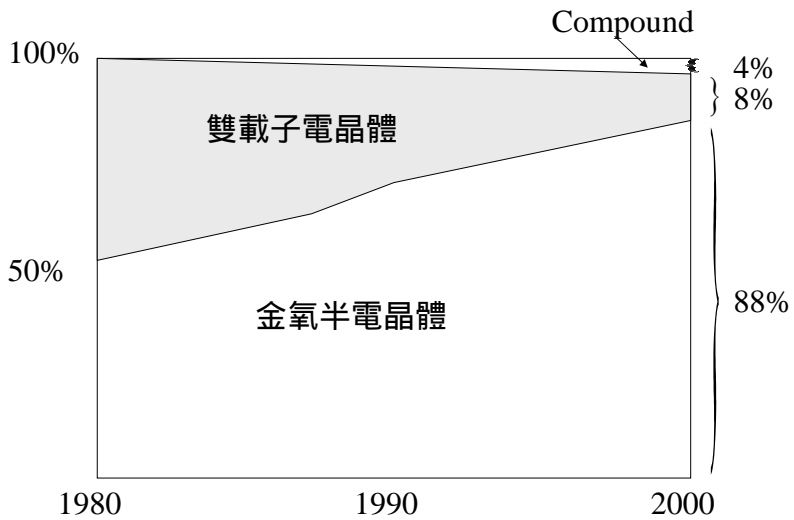
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MOSFET



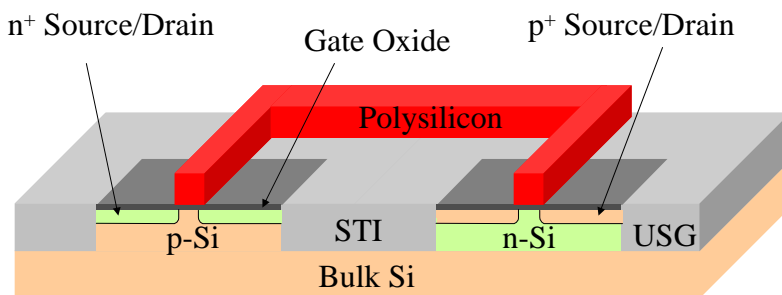


半導體產品之市場



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CMOS IC



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