6.1. Diagramme de bandes d'énergie

Lorsque deux semiconducteurs différents sont au contact, il apparaît une barrière de potentiel à l'interface, donnée par (voir chapitre 1).

$$E_{s}=e(\chi_{1}-\chi_{2}) \tag{6-1}$$

où $e\chi_1$ et $e\chi_2$ représentent les affinités électroniques des semiconducteurs. La forme de cette barrière et le diagramme énergétique correspondant, sont en outre fonction des gaps des semiconducteurs et de leurs dopages respectifs.

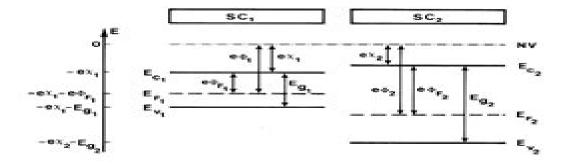


Figure 6-1 : Diagramme énergétique dans chacun des semiconducteurs

Considérons deux semiconducteurs caractérisés par les affinités électroniques $e\chi_1$ et $e\chi_2$, les gaps E_{g1} et E_{g2} et les dopages représentés par les distances $e\phi_{FI}$ et $e\phi_{F2}$ du niveau de Fermi à la bande de conduction. En l'absence de tout contact les diagrammes énergétiques dans chacun des semiconducteurs sont représentés sur la figure (6-1).

L'axe des énergies est orienté positivement vers le haut, l'axe des potentiels est orienté positivement vers le bas. On a choisi comme origine des énergies, l'énergie potentielle d'un électron extrait du semiconducteur 1 au voisinage de celui-ci. Les deux semiconducteurs étant supposés non chargés, ce zéro est le même pour les deux. Le même diagramme représente les énergies potentielles E des électrons et le potentiel électrique V.

Compte tenu de la définition de l'affinité électronique, la bande de conduction de chaque semiconducteur est située à la distance $e\chi_j$ (j=1,2) au-dessous du zéro de l'énergie, c'est-à-dire à l'abscisse $-e\chi_j$ sur l'axe des énergies. De même les niveaux de Fermi et les bandes de valence sont situés aux abscisses $-e\chi_j-e\phi_{ij}$ et $-e\chi_j-E_{ij}$ respectivement. Les deux semiconducteurs étant indépendants, les distributions

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