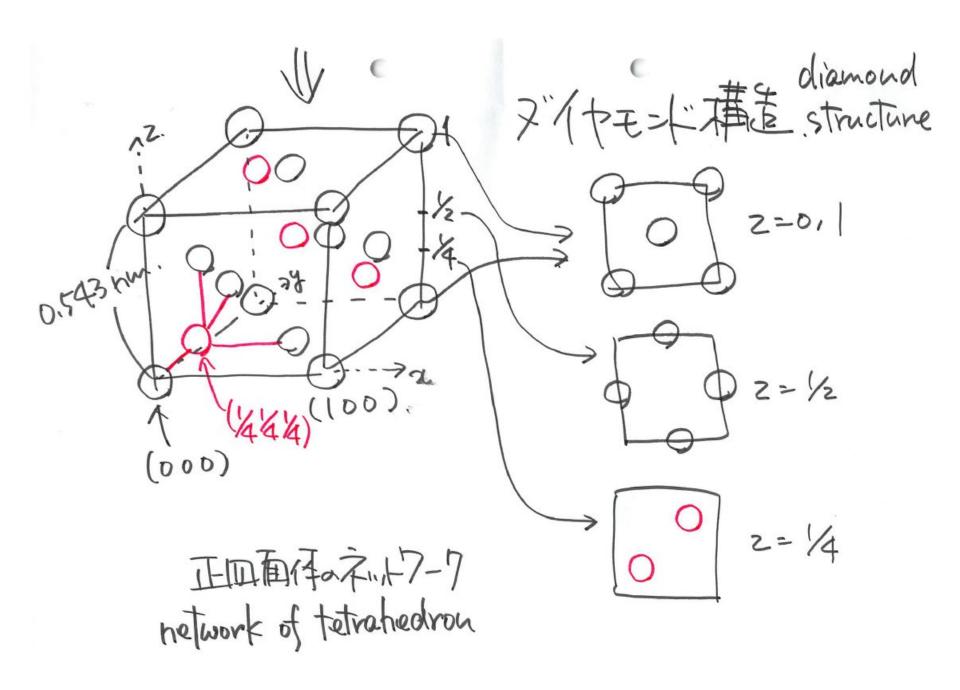
Semiconductor Materials

材料工学科 弓野健太郎
Department of Material Science
Kentaro Kyuno

Valence electrons Covalent bond Core electrons 原猫514. Atomic number

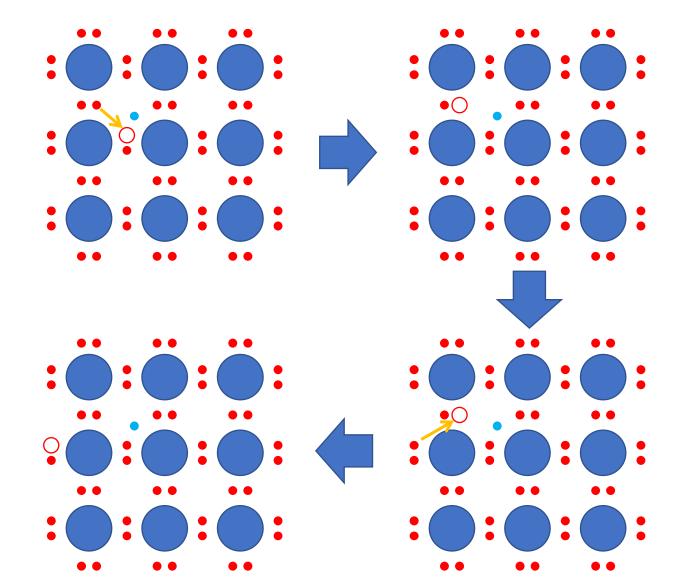


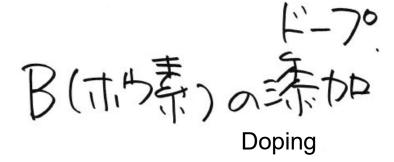
Carrier generation (heat, light)

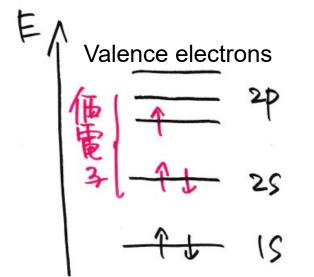
Conduction electron

Carrier density

ホールによる電気伝導 Electrical current by holes

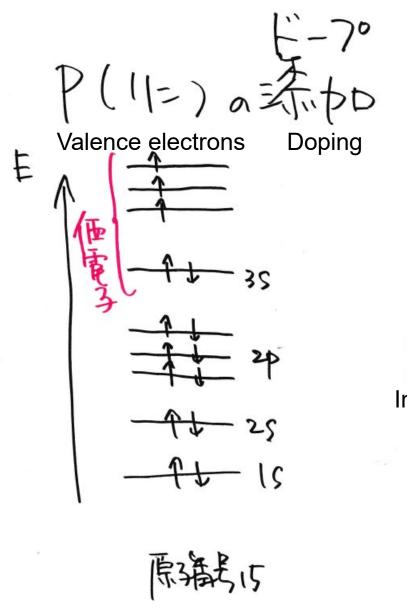




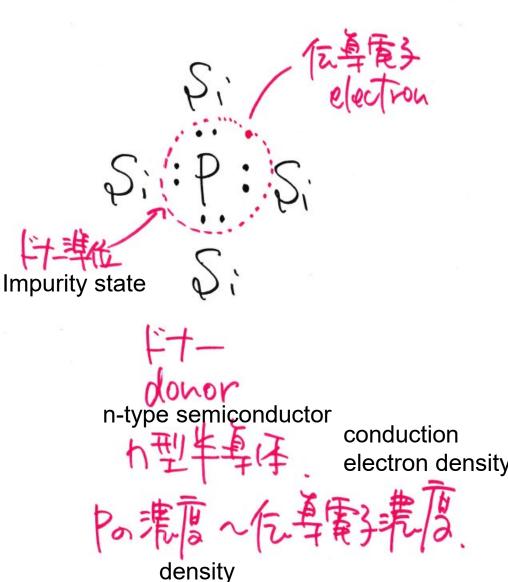


原義 5 Atomic number

Impurity state p-type semiconductor hole density



Atomic number



演習11に残るなるら原うの原発を表すると、原うの原発をして表する。

Exercise 1 Evaluate the number of Si atoms in 1 cm³.

演習2 ダイヤモ・上本華をお草で計算せよ。

Exercise 2

Derive the volume fraction occupied by atomic spheres in the diamond structure.

