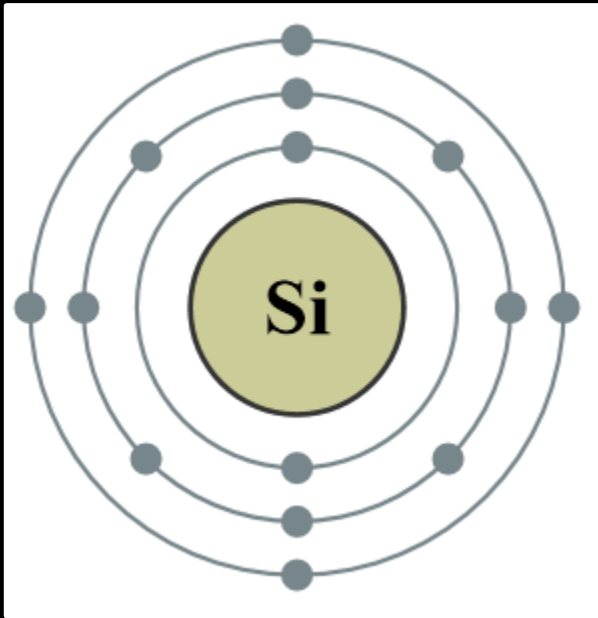


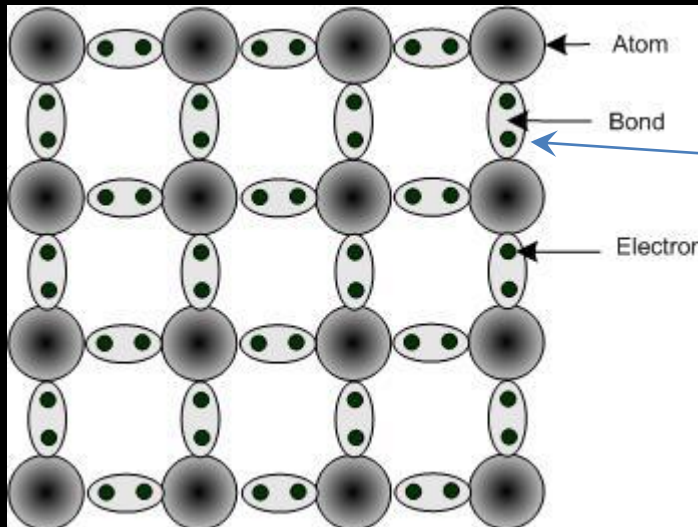
Silicon (Si) and Doping



Silicon electron configuration:



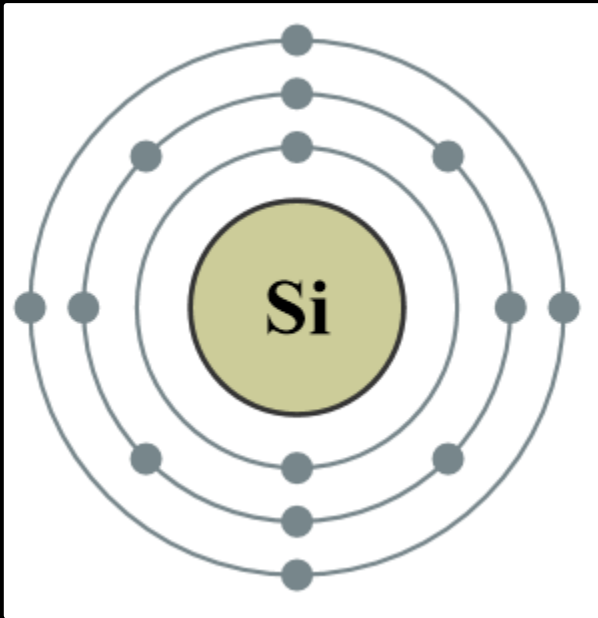
4 valence electrons in 3rd shell



covalent bonds

Since valence most electrons participating in bonds... **relatively poor conductor**

Silicon (Si) and Doping



Silicon electron configuration:



4 valence electrons in 3rd shell

Actual crystal structure of Silicon

