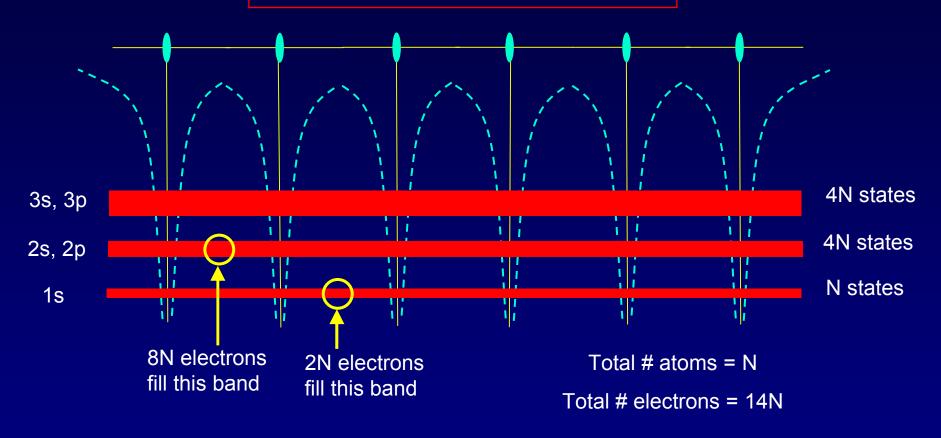
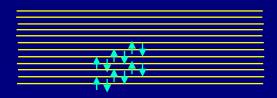
Semiconductors





The 3s/3p band is only half filled (4N states - and 4N electrons)



Why isn't Silicon a metallic conductor, like sodium?