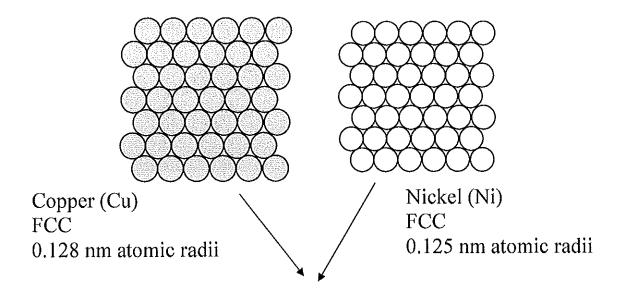
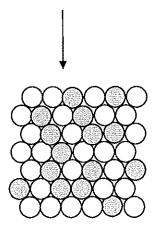
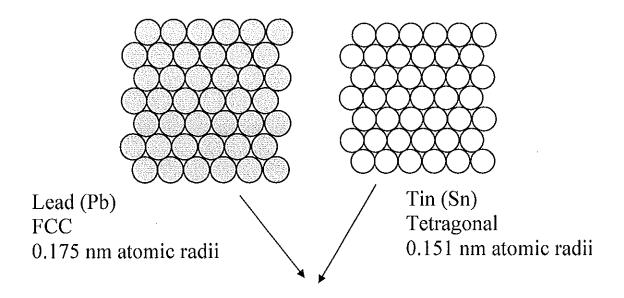
## Fully soluble system (example, Cu-Ni) The two constituents are not full soluble in each other



Mix 50% Cu + 50% Ni, produces one solid phases ( $\alpha$ )



Binary eutectic system (example, lead-tin)
The two constituents are not full soluble in each other.



Mix 50% Pb + 50% Sn, gives **two solid phases** ( $\alpha$  and  $\beta$ )

