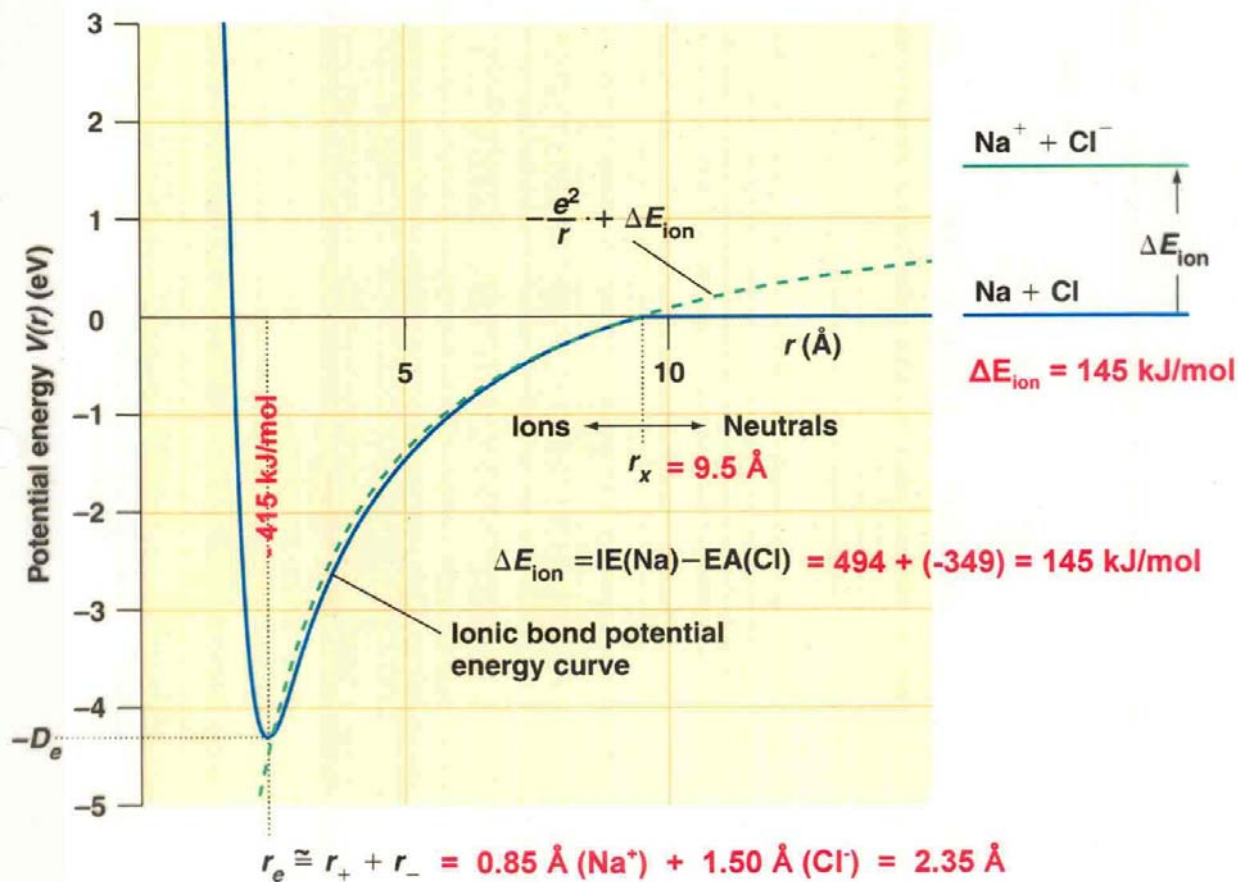
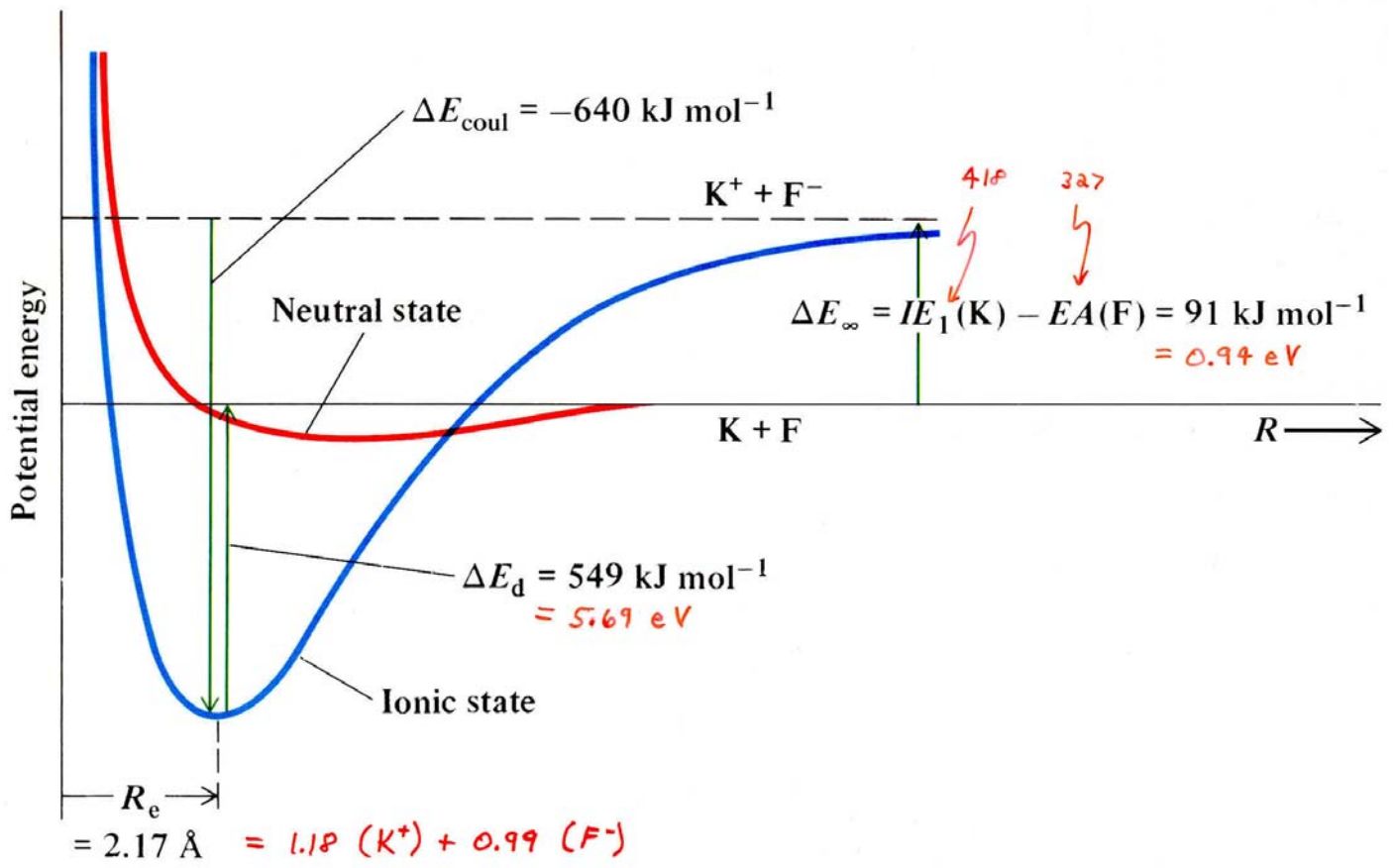


Topic 2A - Ionic Bonding

Energetics of Ionic Bond Formation

(For a single Na^+Cl^- ion pair)





Melting points of ionic solids reflect their differing lattice energies:

Solid	M.P. (°C)	Solid	M.P. (°C)
NaF	993	MgF ₂	1261
KF	858	CaF ₂	1423
RbF	795	SrF ₂	1473
CsF	682	BaF ₂	1355
NaCl	801	MgCl ₂	714
NaBr	747	MgBr ₂	700
NaI	661	MgI ₂	< 637 (d)
KCl	770	CaCl ₂	782
KBr	734	CaBr ₂	742
KI	681	CaI ₂	784
		BeO	2530
		MgO	2852
		CaO	2614
		SrO	2430
		BaO	1918

