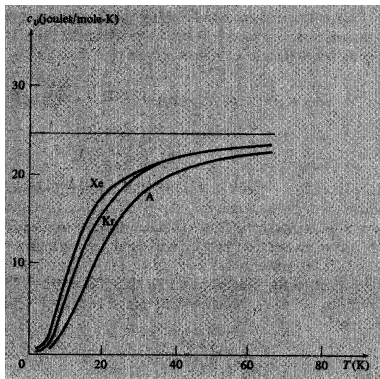


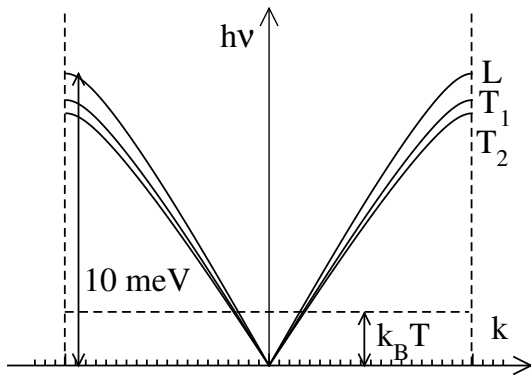
P#9: Kvantna teorija vibracija kristalne rešetke
Fizika čvrstog stanja 1

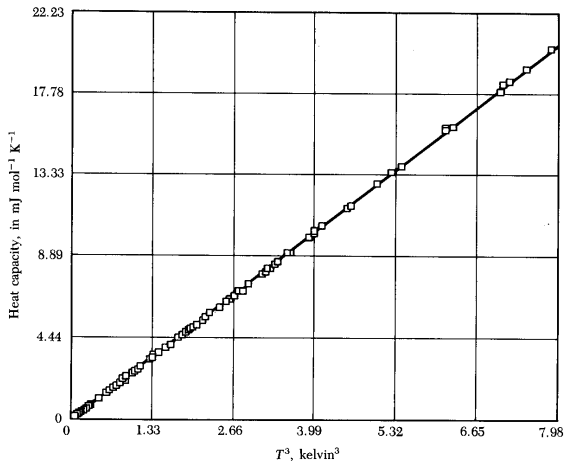
predavanja 2021

Toplinski kapacitet

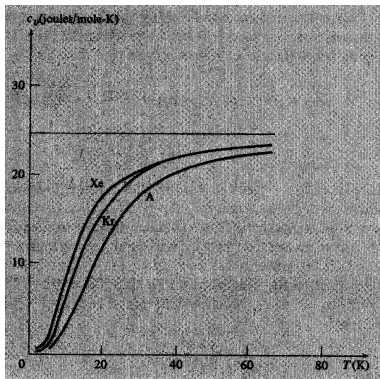


9.3 Niskotemperaturni toplinski kapacitet

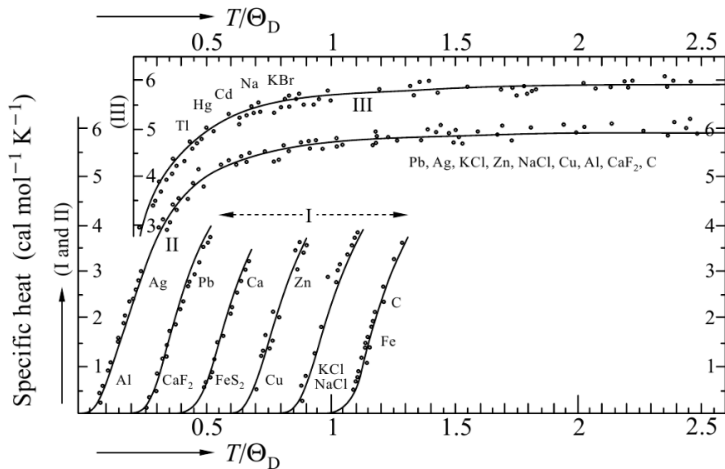




9.4 Visokotemperaturni toplinski kapacitet



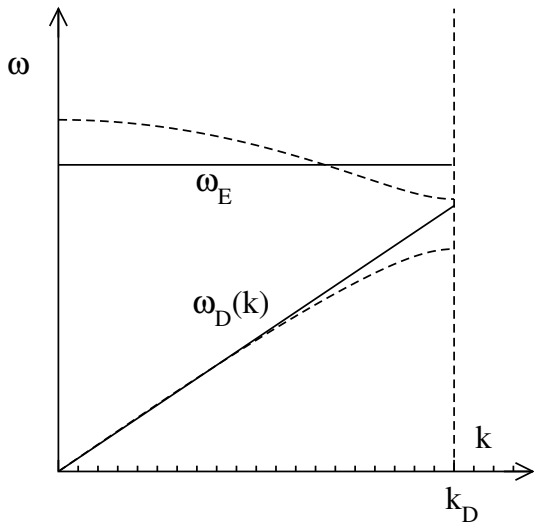
9.5 Debye model vibracija kristalne rešetke (1912. godina)



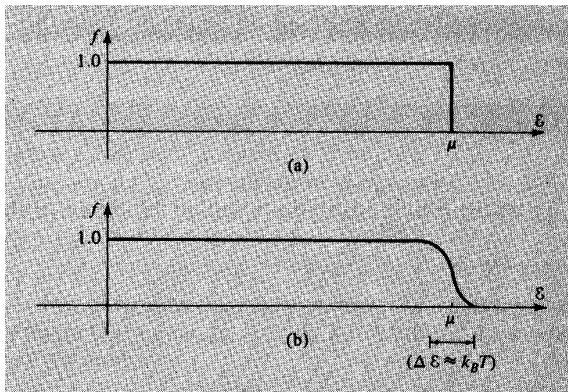
DEBYE TEMPERATURES FOR SELECTED ELEMENTS^a

ELEMENT	Θ_D (K)	ELEMENT	Θ_D (K)
Li	400	A	85
Na	150	Ne	63
K	100		
		Cu	315
Be	1000	Ag	215
Mg	318	Au	170
Ca	230		

9.6 Einsteinov model vibracija kristalne rešetke (1907. godina)



9.7 Elektronski doprinos toplinskom kapacitetu



Literatura

- 1) Ashcroft & Mermin, *Solid State Physics*, Pog. 23