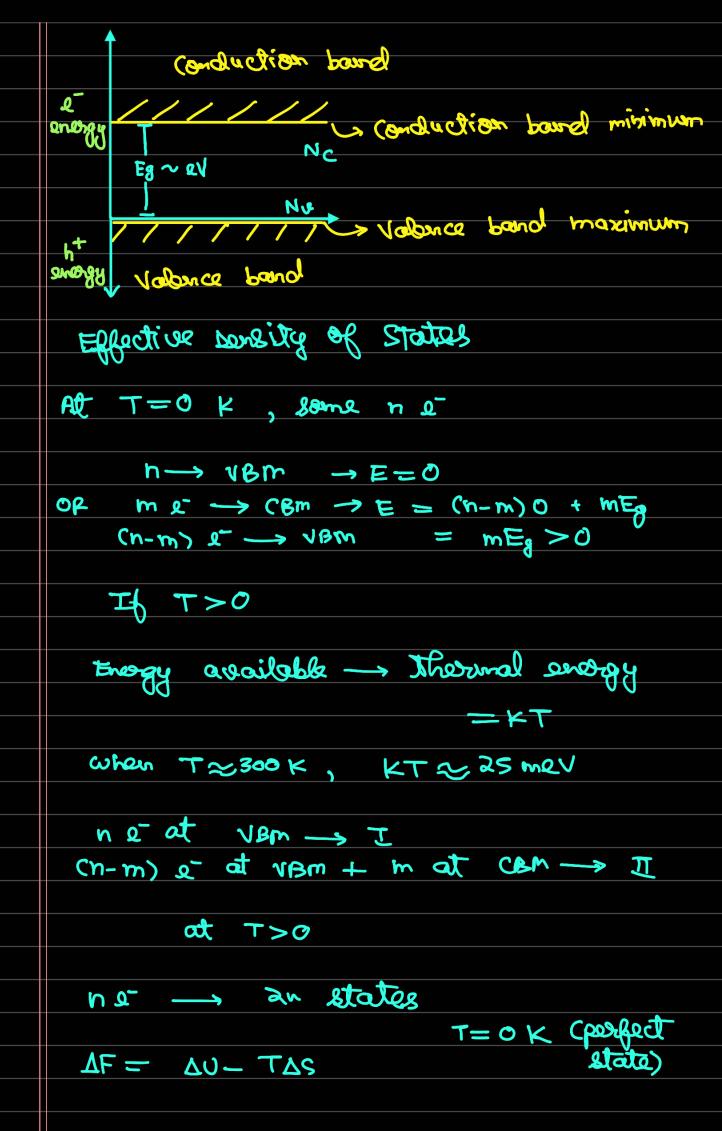
	Day-26
<b>→</b>	Point defects
	Equilibrium concentration of Jacancies in
	a metallic crystal
	on (-NE) different las different
	exp (-AF) different for different materials
	~ Mayestas
	to Diff of Min. Could
$\rightarrow$	Local Electroneutrality Condition (ENC)
	+ ve defect compareated by -ve defect
	Keregoer-Vink Notation
	U
<b>-</b>	Stoichiométric defect -
	V
	Anien-cation ratio is maintained
	MX Fe 0 (1:1)
	./ \.
	Cotion Anien consider a region of
	cotion Anion consider a segion of the parket crystal
	the partie organal
	100 F20
	10 vacancies of 0
	10 varancies of Fe
	$QA = \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ \{ $

-> Another way: 10 vacancies of exygen those 10 exygen atoms can

	go to interstitle positions
	CALLO a stoichiametric defect
	V 2
<b>→</b>	Non-Stochiometric defect
	$mx \longrightarrow m_{1-y}x$ (0< y< )
	100 m and 100 x
	Create 10 vacancies of M (y = 0.1)
	Mo.a X
	Eg: Fe <sup>2+</sup> 0 <sup>2-</sup> 6Fe <sup>2+</sup> 6Fe <sup>3+</sup>
<b>→</b>	Interaction ketween ionic defects and
	electronic defects
<b>→</b>	Interaction with environment (other Than temp. 29 willbrium)
	tamp. It are any
	o → intobatital site
	Fe O <sub>1+z</sub>
<b>→</b>	Electron as a defect
	Board gap -> Those area certain values of energy it councit assume.
	enorgy if connact assume.
	Flat Board diagram



T>0 (defect) Any et in C.B. is considered a defect (electron) hole -> h Nil === [+] + [-] 2(VB) + h(CB) === [2(CB)]+[h(VB)]