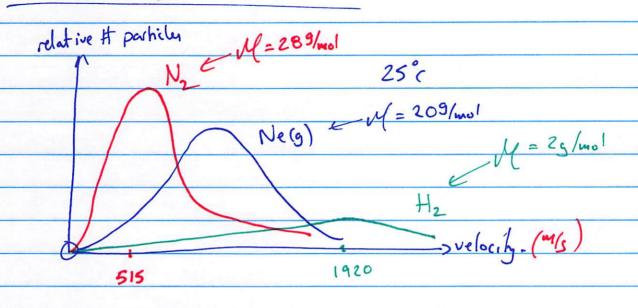


2.2285mol He(g) @ 355K
@ 738mmHg ~> p = 38mmHg v 1 ahm 760mmHg
V? (liters) 760 muly
V? (liters) 760 muly R=0.08206 ahn.L = 0.971 afm
V=nRT mol-K
V=nRT mol·K
V = 2.2285 mot x 0.08206 atm. C v 355 k
0.971 atm
= 66.9 L (Ss.f.)

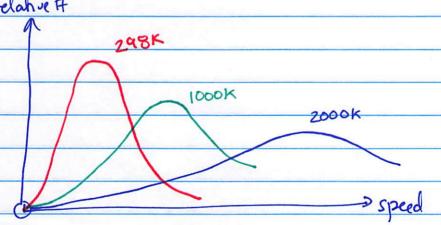
Kinchic Molecular Theory (KMT) model of ideal gas gas: 1) made of small-particles 2) in constant, chaotic motion 3) with an averge KE & temp (K) 4) collide elastically (no E loss upon collision) - can derive pV=nRT from this! - with mate + physis, can predict things like ... ev: $\overline{V} = \sqrt{3RT}$ M = molar masi (Kg/mol) R = 8.3145 /mol.K (note: 1] = 1 kg m2/s2) can show: N2 @ 298K has V=515m/s (1152mph) Hz @ 2981 has = 1920 m/s (4295 mph)

Maxwell-Boltzmann distribution



SF6(g)

Can also see how Taffects den:



Real Gares es ideal.

