

< KINETIC THEORY >

Introduction:- (Microscopic properties)

(John Dalton) → Atom → 1803

In 1873 → [Maxwell & Boltzmann]

Ideal Gas → [Kinetic theory of gases]

Atoms/molecules constantly motions
they are not in rest.

< we study Average properties of gases >

Average Relax time 'T'

- Average time period b/w two successive collisions.

< for 1661 > → [Boyle's Law]:-

- Keeping temperature constant, pressure of a given mass of gas varies inversely with volume.

$$(P \propto 1/V)$$

$$\Rightarrow PV = \text{constant}$$

$$\text{or } [P_1 V_1 = P_2 V_2]$$

- At high temperature Real gas and Ideal gas approximately behave same. (High temp. per Boyle law real, Ideal does not follow Boyle law, otherwise diff. Ideal gas.)

< for 1783 > → [Charles's Law]:-

- For a fixed mass pressure, the vol. of a gas is directly proportional to its absolute temperature 'T'.

$$(V \propto T)$$

$$\Rightarrow \frac{V}{T} = \text{constant}$$

$$\text{or } \left[\frac{V_1}{T_1} = \frac{V_2}{T_2} \right]$$

- At high temperature law holds for all gas (Real + Ideal).

Combining both Boyle's and Charles's law

$$(T = \text{constant}) V \propto \frac{1}{P} \quad V \propto T \quad (P = \text{constant})$$

$$\Rightarrow V \propto \frac{T}{P} \quad \text{or } \frac{PV}{T} = \text{constant}$$

$$\text{or } \frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

[Equation of State]

ARIHANT

free path = distance b/w two consecutive collisions

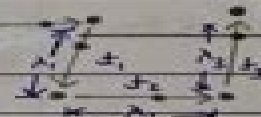
Mean free path:-

Average distance travelled by a molecule b/w two successive collisions.

$$\lambda_m = \lambda_1 + \lambda_2 + \dots + \lambda_n$$

(mean)

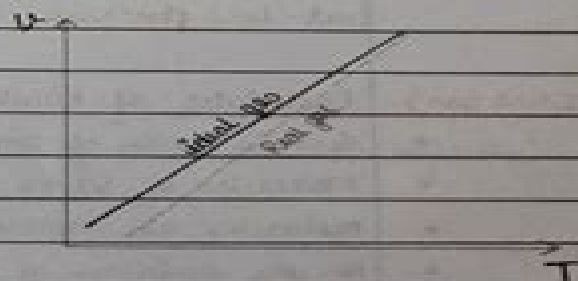
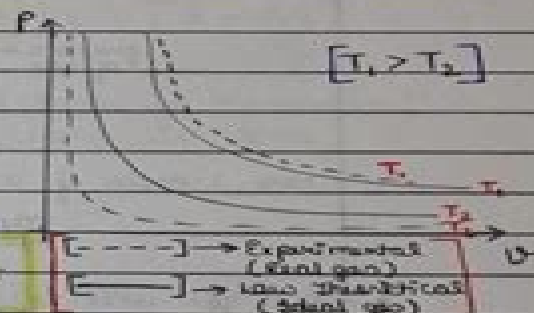
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$$T_m = T_1 + T_2 + \dots + T_n$$

(mean)

n



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features with the monograph mentioned above although there are new issues concerning the mathematical apparatus developed so that the Boltzmann equation can be applied for new physical problems Because of this some chapters have been rewritten and checked again and some new chapters have been added The Science Orbit Chemistry 08 K. Rajalaxmi, Dr. R.L. Madan, The series provides a body of knowledge methods and techniques that characterize science and technology so that students use these efficiently A conscious attempt has been meeting to help students experience science in varied and interesting ways while actively involving them in their own learning Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

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diese querstange ist auf einem pfosten 10 fuß über dem erdboden angebracht die beiden querstangen kommen wiederum auf eine höhe von 30 fuß man hat am oberen ende einer jeden querstange eine rote flagge see more

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