

kinetic molecular theory of pdf

Kinetic theory may refer to: . Kinetic theory of gases, an account of gas properties in terms of motion and interaction of microscopic particles; Phonons, explaining properties of solids in terms of quantal collection and interactions of microscopic particles.; Kinematics, the part of mechanics that describes the motion of points, particles, bodies, and systems of bodies, without reference to ...

Kinetic theory - Wikipedia

This note covers the following topics: Kinetic Theory of Gases, Pressure of an Ideal Gas, Temperature and Energy, The Maxwell Distribution of Speeds, Energy Distributions, Collisions: Mean Free Path and Collision Number.

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In physics (specifically, in kinetic theory) the Einstein relation (also known as Einstein–Smoluchowski relation) is a previously unexpected connection revealed independently by William Sutherland in 1904, Albert Einstein in 1905, and by Marian Smoluchowski in 1906 in their papers on Brownian motion. The more general form of the equation is $D = \frac{k_B T}{6\pi\eta r}$ where D is the diffusion constant;

Einstein relation (kinetic theory) - Wikipedia

Pump gas molecules to a box and see what happens as you change the volume, add or remove heat, change gravity, and more. Measure the temperature and pressure, and discover how the properties of the gas vary in relation to each other.

Gas Properties - Gas | Heat | Thermodynamics - PhET

Watch different types of molecules form a solid, liquid, or gas. Add or remove heat and watch the phase change. Change the temperature or volume of a container and see a pressure-temperature diagram respond in real time. Relate the interaction potential to the forces between molecules.

States of Matter - Atomic Bonding | Interaction Potential

Solids in liquids (sols): properties – kinetic, optical and electrical; stability of colloids, protective action, Hardy-Schulze law, gold number.

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