

linear kinetic theory and pdf

These are the notes for lectures on Kinetic Theory and Statistical Physics, being part of the 2nd-year course at Oxford. Topics covered includes: Basic Thermodynamics, Kinetic Theory, From Local to Global Equilibrium (Transport Equations) , Kinetic Calculation of Transport Coefficients, Foundations of Statistical Mechanics , Statistical Mechanics of Simple Systems , Open Systems, Quantum Gases ...

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Momentum is a measurable quantity, and the measurement depends on the motion of the observer. For example: if an apple is sitting in a glass elevator that is descending, an outside observer, looking into the elevator, sees the apple moving, so, to that observer, the apple has a non-zero momentum.

Momentum - Wikipedia

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Physics Notes Class 11 CHAPTER 13 KINETIC THEORY

If a body's speed is a significant fraction of the speed of light, it is necessary to use relativistic mechanics to calculate its kinetic energy. In special relativity theory, the expression for linear momentum is modified.. With m being an object's rest mass, v and v its velocity and speed, and c the speed of light in vacuum, we use the expression for linear momentum $= \gamma m v$, where $\gamma = 1 / \sqrt{1 - v^2/c^2}$.

Kinetic energy - Wikipedia

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