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Method of Lagrange Multipliers

The Partition Function

Average Energy

Control Parameters

Entropy

Entropy in Terms of the Partition Function

The Entropy

Calculating the Temperature

Definition of Temperature

Ideal Gas

Momenta

P Integral

Total Energy

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Fluctuations of Energy

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Law of Motion

Conservation Law

Allowable Rules

Laws of Motion

Limits on Predictability

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Statistical Mechanics

Energy Distribution

BoseEinstein condensate

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Harmonic Oscillator

Harmonic Oscillator

The Harmonic Oscillator

Statistical Mechanics of the Harmonic Oscillator

The Hookes Law Spring Constant

Partition Function

Frequency of a Harmonic Oscillator

Calculate the Energy of the Oscillator

Gaussian Integrals

Energy of an Oscillator

Quantum Mechanical Calculation

Energy of a Harmonic Oscillator

Calculate the Partition Function for the Quantum Mechanical Oscillator

Formula for the Partition Function

Geometric Series

Calculate the Energy

Derivative of the Exponential

The Derivation of the Classical **Statistical Mechanics**, ...

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Isotherms

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Higher Dimensions

Error Correction

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Magnetic Field

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