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Properties in term of
Partition Function Thermal
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~~distribution of Particles in~~
~~3 statistics # Microstates~~
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~~unit 4 | TERM 2 | with book~~
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~~Probability of Maxwell -~~
~~Boltzmann Statistics (M-B~~
~~Distribution Function - 1)~~
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~~MICROSTATE, MACROSTATE AND~~
~~THERMODYNAMIC PROBABILITY 1.~~
~~Thermodynamics Part 1~~
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Thermodynamics (16 of 30)

*Definition of Entropy of a
Microstate: Example****

~~Thermodynamics~~

~~(statistical): Boltzmann
distribution derivation~~

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(1 of 30) Basic Term and

Concepts Physics -

Statistical Thermodynamics

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In response to such an inquiry, we can identify two main benefits of developing a statistical thermodynamic theory. First, by design, statistical thermodynamics theory provides a link between macroscopic

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“classical” thermodynamic analysis of system behavior and the microscopic characteristics of the atoms, molecules, or subatomic particles that make up the system.

~~Quantum Mechanics and Energy Storage in Particles
(Chapter ...~~

Statistical Thermodynamics and Microscale Thermophysics, by V.P. Carey, Cambridge University Press, New York, 1999. or . Statistical Thermodynamics: Fundamental and Applications, N. Laurendeau, Cambridge University, 2005.
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Morozov 1 Solutions for
Problem 1 a) $Q=0$ for
adiabatic processes, and
thus the first law of
thermodynamics becomes: $U +$
 $A=0$; (1) where A is the work
done by gas, and U is its
internal energy. Using $A= P$
 $2 V$ and $U= C V T$ we obtain: C
 $V(T_2 - T_1) + P_2(V_2 - V_1) =$
 0 : (2)

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