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4.1 Introduction The objective of statistical mechanics is to calculate the measurable properties of macroscopic systems, starting from a microscopic Hamiltonian. These systems might be isolated or nearly isolated, stand-alone systems, or they might be in contact with some kind of environment with which they can



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interact in various ways.

## Statistical Mechanics An Introductory Graduate Course ...

I found this book to be a great introduction to statistical mechanics. The thermodynamic chapters (which are mostly at the very beginning and very end of the book) left a lot to be desired. The authors did, however, relate stat mech ideas back to thermo topics, which helped motivate the subject.

## Introductory Statistical Mechanics: Bowley, Roger, Sanchez ...

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Relation between Statistical-mechanics and Thermodynamics (Boltzmann Relation) : Let us consider two physical systems  $A_1$  and  $A_2$ , each in equilibrium condition separately, have microstates  $\Omega_1(N_1, V_1, E_1)$  and  $\Omega_2(N_2, V_2, E_2)$  respectively. They are separated by rigid walls so that the volume ( $V$ ) and the number of particles in the system ( $N$ ) is constant.

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The way the concepts are ordered and presented makes it very easy to keep in mind the bigger picture

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of the theory you're trying to develop (statistical mechanics), and probably the fact that it leaves out many extraneous topics helps with that too. I disagree with those who say it's not a good introduction.

[Introduction to Modern Statistical Mechanics: Amazon.co.uk ...](#)

Introductory Statistical Mechanics. Second Edition. Roger Bowley and Mariana Sanchez. Description. This book explains the ideas and techniques of statistical mechanics--the theory of condensed matter--in a simple and progressive way. The text begins with the laws of thermodynamics and the basic ideas of quantum mechanics.

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Introductory Statistical Mechanics  
- Roger Bowley; Mariana ...

An Introduction to Statistical  
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Oxford University Press. ISBN

978-0-19-964694-4. Statistical

mechanics. Fowler, R. H. (1929).

Statistical mechanics : the theory  
of the properties of matter in

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