



# Statistical Mechanics

A concise introduction for chemists

Benjamin Widom

CAMBRIDGE

# Statistical Mechanics For Chemists

**B. Widom**



## **Statistical Mechanics For Chemists:**

**Statistical Mechanics** B. Widom, 2002-04-18 This book is an introduction to statistical mechanics intended for advanced undergraduate or beginning graduate students

**Molecular Thermodynamics** John H. Knox, 1978-01-01

**Statistical Mechanics for Chemists** Jerry Goodisman, 1997-04-25 Unlike most books on statistical mechanics this one is written for advanced students in chemistry chemical engineering biophysics and related fields It targets readers with no prior exposure to statistical mechanics and provides a complete introduction to all the important principles concepts and equations while maintaining a level of mathematical sophistication that most advanced chemistry students will find manageable The emphasis is on finding solutions to common problems in chemistry Clearly written and with a minimum of theory Statistical Mechanics for Chemists takes you step by step through mathematical manipulations and explains the physical and chemical bases for each procedure

**Statistical Mechanics for Chemistry and Materials Science** Biman Bagchi, 2018-07-06 This book covers the broad subject of equilibrium statistical mechanics along with many advanced and modern topics such as nucleation spinodal decomposition inherent structures of liquids and liquid crystals Unlike other books on the market this comprehensive text not only deals with the primary fundamental ideas of statistical mechanics but also covers contemporary topics in this broad and rapidly developing area of chemistry and materials science

Statistical Thermodynamics Ralph Howard Fowler, Edward Armand Guggenheim, 1939

STATISTICAL MECHANICS WITH APPLICATIONS TO PHYSICS AND CHEMISTRY RICHARD CHACE. TOLMAN, 2018

Physical Chemistry: Statistical Mechanics Horia Metiu, 2006-02-21 This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes These four volumes on physical chemistry combine a clear and thorough presentation of the theoretical and mathematical aspects of the subject with examples and applications drawn from current industrial and academic research By using the computer to solve problems that include actual experimental data the author is able to cover the subject matter at a practical level The books closely integrate the theoretical chemistry being taught with industrial and laboratory practice This approach enables the student to compare theoretical projections with experimental results thereby providing a realistic grounding for future practicing chemists and engineers Each volume of Physical Chemistry includes Mathematica and Mathcad Workbooks on CD ROM Metiu's four separate volumes Thermodynamics Statistical Mechanics Kinetics and Quantum Mechanics offer built in flexibility by allowing the subject to be covered in any order These textbooks can be used to teach physical chemistry without a computer but the experience is enriched substantially for those students who do learn how to read and write Mathematica or Mathcad programs A TI 89 scientific calculator can be used to solve most of the exercises and problems

**Statistical Mechanics with Applications to Physics and Chemistry** Richard Chace Tolman, 1927

**Statistical Mechanics** Edward Mayer Joseph, 2008-11

STATISTICAL MECHANICS JOSEPH EDWARD MAYER Associate Professor of Chemistry Columbia University AND MARIA GOEPPERT MAYER Lecturer in Chemistry Columbia University NEW YORK JOHN WILEY SONS INC

LONDON CHAPMAN HALL LIMITED 1940 PREFACE The rapid increase in the past few decades of knowledge concerning the structure of molecules has made the science of statistical mechanics a practical tool for interpreting and correlating experimental data It is therefore desirable to present this subject in a simple manner in order to make it easily available to scientists whose familiarity with theoretical physics is limited This book which grew out of lectures and seminars given to graduate students in chemistry and physics aims to fulfill this purpose The development of quantum mechanics has altered both the axio matic foundation and the details of the methods of statistical mechanics Although the results of a large number of statistical calculations are un affected by the introduction of quantum mechanics the chemists interest happens to be largely in fields where quantum effects are im portant Consequently in our presentation the laws of statistical mechanics are founded on the concepts of both quantum and classical mechanics The equivalence of the two methods has been stressed but the quantum mechanical language has been favored We believe that this introduction of quantum statistics at the beginning simplifies rather than puts a burden upon the initial concepts It is to be emphasized that the simpler ideas of quantum mechanics which are all that is used are as widely known as the more abstract theorems of classical mechanics which they replace Simplicity of presentation rather than brevity and elegance has been our endeavor However we have not consciously sacrificed rigor Care has been taken to make the book suitable for reference by sum marizing and tabulating final equations as well as by an attempt to make individual chapters complete in themselves without too much reference to previous subjects All the theorems and results of mechanics and quantum mechanics which are used later have been summarized largely without proof in Chapter 2 The last section 2k on Einstein Bose and Fermi Dirac systems ties up closely with Chapters 5 and 16 only Chapters 3 and 4 contain the derivation of the fundamental statistical laws on which the book is based Chapter 10 is prerequisite for Chap ters 11 to 14 Otherwise individual subj ects may be taken up in different order vii viii PREFACE In Chapters 7 to 9 considerable space is devoted to the calculation of thermodynamic functions for perfect gases which was considered justi fied by the value of the results for the chemist These chapters may be omitted by readers uninterested in the subject Chapters 13 and 14 on the imperfect gas and condensation theory respectively are somewhat more complicated than the remainder but are included because of our special interest in the subject The aim of the book is to give the reader a clear understanding of principles and to prepare him thoroughly for the use of the science and the study of recent papers Many of the simpler applications are dis cussed in some detail but in general language without comparison with experiment The more complicated subjects have been omitted as have been those for which at present only partial solutions are obtained This choice has excluded many of the contemporary developments especially the interesting work of J G Kirkwood L Onsager H Eyring and W F Giauque In conclusion we express our gratitude to Professors Max Born Karl F Hcrzfeld and Edward Teller who have read and criticized several parts of the manuscript We also thank Dr Elliot Montroll who aided in reading proof and who made many helpful suggestions JOSEPH EDWARD MAYER MARIA GOEPPERT MAYER NEW YORK CITY March 31 1940

Dedicated to our teachers Gilbert N *Statistical Mechanics* Terrell L. Hill, 1956-01-01 Standard text opens with clear concise chapters on classical statistical mechanics quantum statistical mechanics and the relation of statistical mechanics to thermodynamics Further topics cover fluctuations the theory of imperfect gases and condensation distribution functions and the liquid state nearest neighbor Ising lattice statistics and more

**Molecular Driving Forces** Ken A. Dill, Sarina Bromberg, 2003 This text shows how many complex behaviors of molecules can result from a few simple physical processes A central theme is the idea that simplistic models can give surprisingly accurate insights into the workings of the molecular world Written in a clear and student friendly style the book gives an excellent introduction to the field for novices It should also be useful to those who want to refresh their understanding of this important field and those interested in seeing how physical principles can be applied to the study of problems in the chemical biological and material sciences Furthermore Molecular Driving Forces contains a number of features including 449 carefully produced figures illustrating the subject matter 178 worked examples in the chapters which explain the key concepts and show their practical applications The text is mathematically self contained with mathematical toolkits providing the required maths Advanced material that might not be suitable for some elementary courses is clearly delineated in the text End of chapter references and suggestions for further reading

**Statistical Mechanics** Bruce Berne, 2012-10-20 The last decade has been marked by a rapid growth in statistical mechanics especially in connection with the physics and chemistry of the fluid state Our understanding in these areas has been considerably advanced and enriched by the discovery of new techniques and the sharpening of old techniques ranging all the way from computer simulation to mode mode coupling theories Statistical mechanics brings together under one roof a broad spectrum of mathematical techniques The aim of these volumes is to provide a didactic treatment of those techniques that are most useful for the study of problems of current interest to theoretical chemists The emphasis throughout is on the techniques themselves and not on reviewing the enormous literature in statistical mechanics Each author was charged with the following task Given N pages a pose the problem b present those aspects of the particular technique that clearly illustrate its internal workings c apply the technique to the solution of several illustrative examples and d write the chapter so that it will enable the reader to approach key citations to the literature intelligently These volumes are designed for graduate students and research workers in statistical mechanics Nevertheless because of the range of techniques and their general utility they should be useful in other areas as well

**Thermodynamics for Chemists, Physicists and Engineers** Robert Holyst, Andrzej Poniewierski, 2012-07-05 This textbook takes an interdisciplinary approach to the subject of thermodynamics and is therefore suitable for undergraduates in chemistry physics and engineering courses The book is an introduction to phenomenological thermodynamics and its applications to phase transitions and chemical reactions with some references to statistical mechanics It strikes the balance between the rigorousness of the Callen text and phenomenological approach of the Atkins text The book is divided in three parts The first introduces the postulates and laws

of thermodynamics and complements these initial explanations with practical examples The second part is devoted to applications of thermodynamics to phase transitions in pure substances and mixtures The third part covers thermodynamic systems in which chemical reactions take place There are some sections on more advanced topics such as thermodynamic potentials natural variables non ideal mixtures and electrochemical reactions which make this book of suitable also to post graduate students

Statistical Mechanics Bruce J. Berne, 2012-05-27 The last decade has been marked by a rapid growth in statistical mechanics especially in connection with the physics and chemistry of the fluid state Our understanding in these areas has been considerably advanced and enriched by the discovery of new techniques and the sharpening of old techniques ranging all the way from computer simulations to mode mode coupling theories Statistical mechanics brings together under one roof a broad spectrum of mathematical methods The aim of these volumes is to provide a didactic treatment of those topics that are most useful for the study of problems of current interest to theoretical chemists The emphasis throughout is on the techniques themselves and not on reviewing the enormous literature in statistical mechanics Each author was charged with the following task Given N pages a pose the problem b present those aspects of the particular technique that c clearly illustrate its internal workings c apply the technique to the solution of several illustrative examples and d write the chapter so that it will enable the reader to approach key citations to the literature intelligently These volumes are designed for graduate students and research workers in statistical mechanics Nevertheless they should be useful in other areas as well

*Concepts and Methods in Modern Theoretical Chemistry* Swapan Kumar Ghosh, Pratim Kumar Chattaraj, 2016-04-19

Concepts and Methods in Modern Theoretical Chemistry Statistical Mechanics the second book in a two volume set focuses on the dynamics of systems and phenomena A new addition to the series Atoms Molecules and Clusters this book offers chapters written by experts in their fields It enables readers to learn how concepts from ab initio quantum

**Statistical Mechanics** Norman Davidson, 2013-01-23 Sufficiently rigorous for introductory or intermediate graduate courses this text offers a comprehensive treatment of the techniques and limitations of statistical mechanics 82 figures 15 tables 1962 edition

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**An**

**Introduction to Statistical Thermodynamics** Terrell L. Hill, 1986-01-01 A large number of exercises of a broad range of difficulty make this book even more useful a good addition to the literature on thermodynamics at the undergraduate level Philosophical Magazine Although written on an introductory level this wide ranging text provides extensive coverage of topics of current interest in equilibrium statistical mechanics Indeed certain traditional topics are given somewhat condensed treatment to allow room for a survey of more recent advances The book is divided into four major sections Part I deals with the principles of quantum statistical mechanics and includes discussions of energy levels states and eigenfunctions degeneracy and other topics Part II examines systems composed of independent molecules or of other independent subsystems Topics range from ideal monatomic gas and monatomic crystals to polyatomic gas and configuration of polymer molecules and rubber elasticity An examination of systems of interacting molecules comprises the nine chapters in Part III reviewing such subjects as lattice statistics imperfect gases and dilute liquid solutions Part IV covers quantum statistics and includes sections on Fermi Dirac and Bose Einstein statistics photon gas and free volume theories of quantum liquids Each chapter includes problems varying in difficulty ranging from simple numerical exercises to small scale research propositions In addition supplementary reading lists for each chapter invite students to pursue the subject at a more advanced level Readers are assumed to have studied thermodynamics calculus elementary differential equations and elementary quantum mechanics Because of the flexibility of the chapter arrangements this book especially lends itself to use in a one or two semester graduate course in chemistry a one semester senior or graduate course in physics or an introductory course in statistical mechanics

**Physical Chemistry** Andrew Cooksy, 2018 In the phase transitions among the solid liquid and gaseous forms of water we see a profound demonstration of how properties at the molecular scale dictate the behavior of the bulk material As ice is heated beyond its melting point new avenues for molecular motion become open to the energy being added Upon entering the gas phase the water molecules can explore new territory unavailable to the liquid or solid These transformations can be seen as a shifting balance between the forces that bind the molecules and the thermal energy that excites these motions a window through thermodynamics on the intricate mechanisms that drive chemistry

**Statistical Mechanics With Applications to Physics and Chemistry** Richard Chace 1881-1948 Tolman, 2023-07-22 Chace Richard Tolman's Statistical Mechanics with Applications to Physics and Chemistry is a pioneering work in the field of statistical mechanics This essential text provides a comprehensive understanding of the principles and applications of this important branch of physics and chemistry A must read for students and scholars alike This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the

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