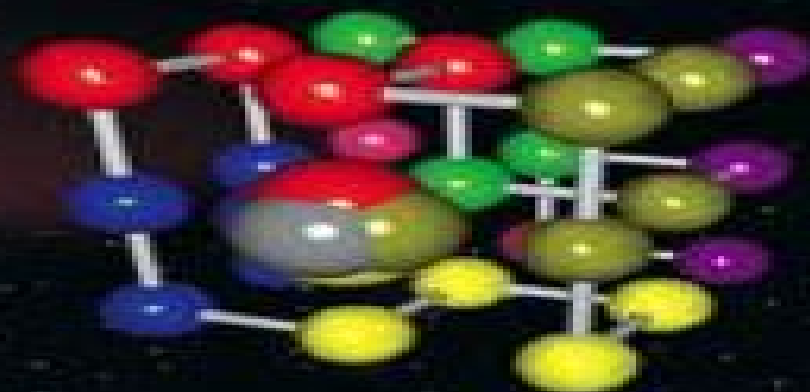


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Alexei R Khokhlov

Foreword by  
Pierre-Gilles de Gennes



# Giant Molecules

Here, There, and Everywhere

Second Edition



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# Giant Molecules Here There And Everywhere 2nd Edition

**Rob Phillips, Jane Kondey, Julie  
Theriot, Hernan Garcia**



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**Giant Molecules: Here, There, And Everywhere (2nd Edition)** Alexander Y Grosberg, Alexei R Khokhlov, 2010-09-24 Giant molecules are important in our everyday life But as pointed out by the authors they are also associated with a culture What Bach did with the harpsichord Kuhn and Flory did with polymers We owe a lot of thanks to those who now make this music accessible Pierre Gilles de Gennes Nobel Prize laureate in Physics Foreword for the 1st Edition March 1996 This book describes the basic facts concepts and ideas of polymer physics in simple yet scientifically accurate terms In both scientific and historic contexts the book shows how the subject of polymers is fascinating as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus yet very sophisticated concepts are introduced and explained ranging from scaling and reptations to protein folding and evolution The new edition includes an extended section on polymer preparation methods discusses knots formed by molecular filaments and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution

*Polymer Chemistry* Paul C. Hiemenz, Timothy P. Lodge, 2007-02-15 Highly recommended CHOICE New Edition Offers Improved Framework for Understanding Polymers Written by well established professors in the field Polymer Chemistry Second Edition provides a well rounded and articulate examination of polymer properties at the molecular level It focuses on fundamental principles based on underlying chemical structures polymer synthesis characterization and properties Consistent with the previous edition the authors emphasize the logical progression of concepts rather than presenting just a catalog of facts The book covers topics that appear prominently in current polymer science journals It also provides mathematical tools as needed and fully derived problems for advanced calculations This new edition integrates new theories and experiments made possible by

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**Polymer Characterization** Dan Campbell, Richard A.

Pethrick, Jim R. White, 2017-12-21 Discerning the properties of polymers and polymer based materials requires a good understanding of characterization This revised and updated text provides a comprehensive survey of characterization methods within its simple concise chapters Polymer Characterization Physical Techniques provides an overview of a wide variety of characterization methods which makes it an excellent textbook and reference It starts with a description of basic polymer science providing a solid foundation from which to understand the key physical characterization techniques The authors explain physical principles without heavy theory and give special emphasis to the application of the techniques to polymers with plenty of illustrations Topics covered include molecular weight determination molecular and structural characterization by spectroscopic techniques morphology and structural characterization by microscopy and diffraction and thermal analysis This edition contains a new chapter on surface analysis as well as some revised problems and solutions The concise treatment of each topic offers even those with little prior knowledge of the subject an accessible source to relevant simple descriptions in a well organized format Colloid Chemistry Clemens K. Weiss, José Luis Toca-Herrera, 2019-01-15 This book is a printed edition of the Special Issue Colloid Chemistry that was published in Gels Molecular Modeling and Simulation: An Interdisciplinary Guide Tamar Schlick, 2010-08-03 Very broad overview of the field intended for an interdisciplinary audience Lively discussion of current challenges written in a colloquial style Author is a rising star in this discipline Suitably accessible for beginners and suitably rigorous for experts Features extensive four color illustrations Appendices featuring homework assignments and reading lists complement the material in the main text **Journal of Nano Research Vol. 85** Wanisa Abdussalam-Mohammed, Amjad Ali, 2024-11-29 The presented volume collects peer reviewed articles that mirror the results of scientific research and engineering solutions in the area of applied nanomaterials and nanotechnologies used in mechanical engineering microelectronics biomedicine pharmacology etc This edition will be interesting to specialists in applied nanomaterials and nanotechnologies in many branches of production Experimental Methods in Polymer Science Toyochi Tanaka, 2012-12-02 Successful characterization of polymer systems is one of the most important objectives of today's experimental research of polymers Considering the tremendous scientific technological and economic importance of polymeric materials not only for today's applications but for the industry of the 21st century it is impossible to overestimate the usefulness of experimental techniques in this field Since the chemical pharmaceutical medical and agricultural industries as well as many others depend on this progress to an enormous degree it is critical to be as efficient precise and cost effective in our empirical understanding of the performance of polymer systems as possible This presupposes our proficiency with and understanding of the most widely used experimental methods and techniques This book is designed to fulfill the requirements of scientists and engineers who wish to be able to carry out experimental research in polymers using modern methods Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications Thus readers will be able to apply the concepts as described

in the book to their own experiments Addresses the most important practical techniques for experimental research in the growing field of polymer science The first well documented presentation of the experimental methods in one consolidated source Covers principles practical techniques and actual examples Can be used as a handbook or lab manual for both students and researchers Presents ideas and methods from an international perspective Techniques addressed in this volume include Light Scattering Neutron Scattering and X Ray Scattering Fluorescence Spectroscopy NMR on Polymers Rheology Gel Experiments

**Biology in Physics** Konstantin Bogdanov, 2000 Biology in Physics Is Life Matter is a radical new book which bridges the gap between biology and physics The aim is to promote an interdisciplinary exchange of scientific information and ideas in order to stimulate cooperation in research The scope of this volume explores the concepts and techniques of biophysics and illustrates the latest advances in our understanding of many of the specific mechanisms that are used by living organisms This volume represents a special effort to bring together the information that would allow a nonbiologically oriented physicist to appreciate the important role that physics plays in life sciences Key Features An introduction to biophysics for non specialist Covers all the important topics in modern biophysics Takes account of the latest information emerging from biophysical projects Reports on novel therapeutic strategies Presents an advanced level overview of mechanisms that regulate a variety of processes in organisms ranging from bacterial to whales

Introduction to Soft Matter Ian W. Hamley, 2013-03-18 This book provides an introduction to this exciting and relatively new subject with chapters covering natural and synthetic polymers colloids surfactants and liquid crystals highlighting the many and varied applications of these materials Written by an expert in the field this book will be an essential reference for people working in both industry and academia and will aid in understanding of this increasingly popular topic Contains a new chapter on biological soft matter Newly edited and updated chapters including updated coverage of recent aspects of polymer science Contain problems at the end of each chapter to facilitate understanding

**Fundamentals of Fiber Science** Xiangwu Zhang, 2014-01-13 Connects fiber chemistry and structure to properties that can be designed and engineered Micro and nanoscale synthetic and natural polymer and non polymer fibers explained with applications to industrial electronic biomedical and energy Information pertinent for fiber textile composite polymer and materials specialists This volume provides the basic chemical and mathematical theory needed to understand and modify the connections among the structure formation and properties of many different types of manmade and natural fibers At a fundamental level it explains how polymeric and non polymeric fibers are organized how such fibers are formed both synthetically and biologically and how primary and secondary properties from basic flow to thermal and electrical qualities are derived from molecular and submolecular organization thus establishing the quantitative and predictive relationships needed for fiber engineering The book goes on to show how fiber chemistry and modes of processing for dozens of materials such as silks ceramics glass and carbon can be used to control functional optical conductive thermal and other properties Its discussion ranges over microscale and nanoscale fibers

nanofibers covering methods such as spinning and electrospinning as well as biological fiber generation through self assembly Technologies in this text apply to the analysis and design of fibers for industrial electronic optical medical and energy storage applications

**Molecular Driving Forces** Ken Dill, Sarina Bromberg, 2010-10-21 Molecular Driving Forces Second Edition E book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes It demonstrates how the complex behaviors of molecules can result from a few simple physical processes and how simple models provide surprisingly accurate insights into the workings of the molecular world Widely adopted in its First Edition Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts The Second Edition includes two brand new chapters 1 Microscopic Dynamics introduces single molecule experiments and 2 Molecular Machines considers how nanoscale machines and engines work The Logic of Thermodynamics has been expanded to its own chapter and now covers heat work processes pathways and cycles New practical applications examples and end of chapter questions are integrated throughout the revised and updated text exploring topics in biology environmental and energy science and nanotechnology Written in a clear and reader friendly style the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts

*Developing Synthetic Transport Systems* Alexey Melkikh, Maria Sutormina, 2013-02-01 Understanding the general laws of an effective system for the transport of substances in cells is an important goal of systems and synthetic biology and will help us to answer why the transport subsystem of a cell is arranged as it is In addition the construction of models for optimizing transport systems is of considerable importance in the early stages in the development of a functioning protocell The aim of this book is to describe the latest techniques for the calculation of the optimal parameters of the transport subsystem of a cell at its maximum efficiency The book will describe linear and nonlinear programming dynamic programming game theory for models of ion transport in different types of cells e g mammalian cells bacteria plants and fungi

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**Physical Biology of the Cell** Rob Phillips, Jane Kondev, Julie Theriot, Hernan Garcia, 2012-10-29 Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students It maps the huge and complex landscape of cell and molecular biology

from the distinct perspective of physical biology As a key organizing principle the proximity of topics is based on the physical concepts that

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**The Flaviviridae Viral Family: Properties and Genome Bank** Dimitrios Vlachakis,2008-08-07 The Flaviviridae family of viruses description properties and complete genome bank of all family members

**The Physics of Living Processes** Thomas Andrew Waigh,2014-08-08 This full colour undergraduate textbook based on a two semester course presents the fundamentals of biological physics introducing essential modern topics that include cells polymers polyelectrolytes membranes liquid crystals phase transitions self assembly photonics fluid mechanics motility chemical kinetics enzyme kinetics systems biology nerves physiology the senses and the brain The comprehensive coverage featuring in depth explanations of recent rapid developments demonstrates this to be one of the most diverse of modern scientific disciplines The Physics of Living Processes A Mesoscopic Approach is comprised of five principal sections Building Blocks Soft Condensed Matter Techniques in Biology Experimental Techniques Systems Biology Spikes Brains and the Senses The unique focus is predominantly on the mesoscale structures on length scales between those of atoms and the macroscopic behaviour of whole organisms The connections between molecules and their emergent biological phenomena provide a novel integrated perspective on biological physics making this an important text across a variety of scientific disciplines including biophysics physics physical chemistry chemical engineering and bioengineering An extensive set of worked tutorial questions are included which will equip the reader with a range of new physical tools to approach problems in the life sciences from medicine pharmaceutical science and agriculture



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