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Foreword by

Pierre-Gilles de Gennes



Giant Molecules

Here, There, and Everywhere

Second Edition



World Scientific

Giant Molecules Here There And Everywhere 2nd Edition

David Baud

Giant Molecules Here There And Everywhere 2nd Edition:

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

Giant Molecules A. I?U. Grosberg,A. R. Khokhlov,Pierre-Gilles de Gennes,2011 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

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 *Biochemicals and Reagents , Surface Activity* Kaoru Tsujii,1998 Surfaces and interfaces are concepts of fundamental importance in materials science and technology All materials have surfaces When two or more materials are put together interfaces appear In composite materials interfaces play a crucial role in determining mechanical optical and electronic properties Surfaces

and interfaces can be dramatically altered when surfactant molecules are applied to them modifying not only the interactions between two materials at the interface but also the bulk properties of a composite Surfactants are key materials in processes involving adhesion coating mixing domain formations and many other phenomena in the medical pharmaceutical chemical and electronic industries Surfactants exhibit a variety of interesting phenomena such as formations of micelles vesicles layers and gels They provide a fascinating example of self assembly Surfactants have many phases and undergo phase transitions between them Understanding these phenomena is a great challenge for physics and chemistry and is of increasing technological importance Dr Kaoru Tsujii is one of the pioneers and leaders in the science and technology of surfactants He has long explored the field both in theory and in industrial applications and seeks to demonstrate applications of surfactants in our everyday life and industry The book will serve as an excellent text and reference for researchers and students who wish to know more about surfactants *McGraw-Hill encyclopedia of science & technology* McGraw-Hill,2002 American Journal of Physics ,2003 Introduction to Soft Matter Ian W. Hamley,2000-04-14 Covering all types of soft matter this unique book provides an easily accessible introduction to both theory and applications *The Best Books for Academic Libraries: Science, technology, and agriculture* ,2002 **Forthcoming Books** Rose Arny,1997 **The British National Bibliography** Arthur James Wells,1998 **Probing Polymer Adsorption Using an Emissive Semiconductor Substrate** Fazila Seker,1999 **Against the Grain** ,1998 *American Book Publishing Record* ,2004 **Cumulative Book Index** ,1998 A world list of books in the English language *The Corrector* ,1930 *Antiquarian Bookman* ,1958 **Books in Print Supplement** ,2002 **Airport World** ,1973 *Subject Guide to Books in Print* ,1991

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