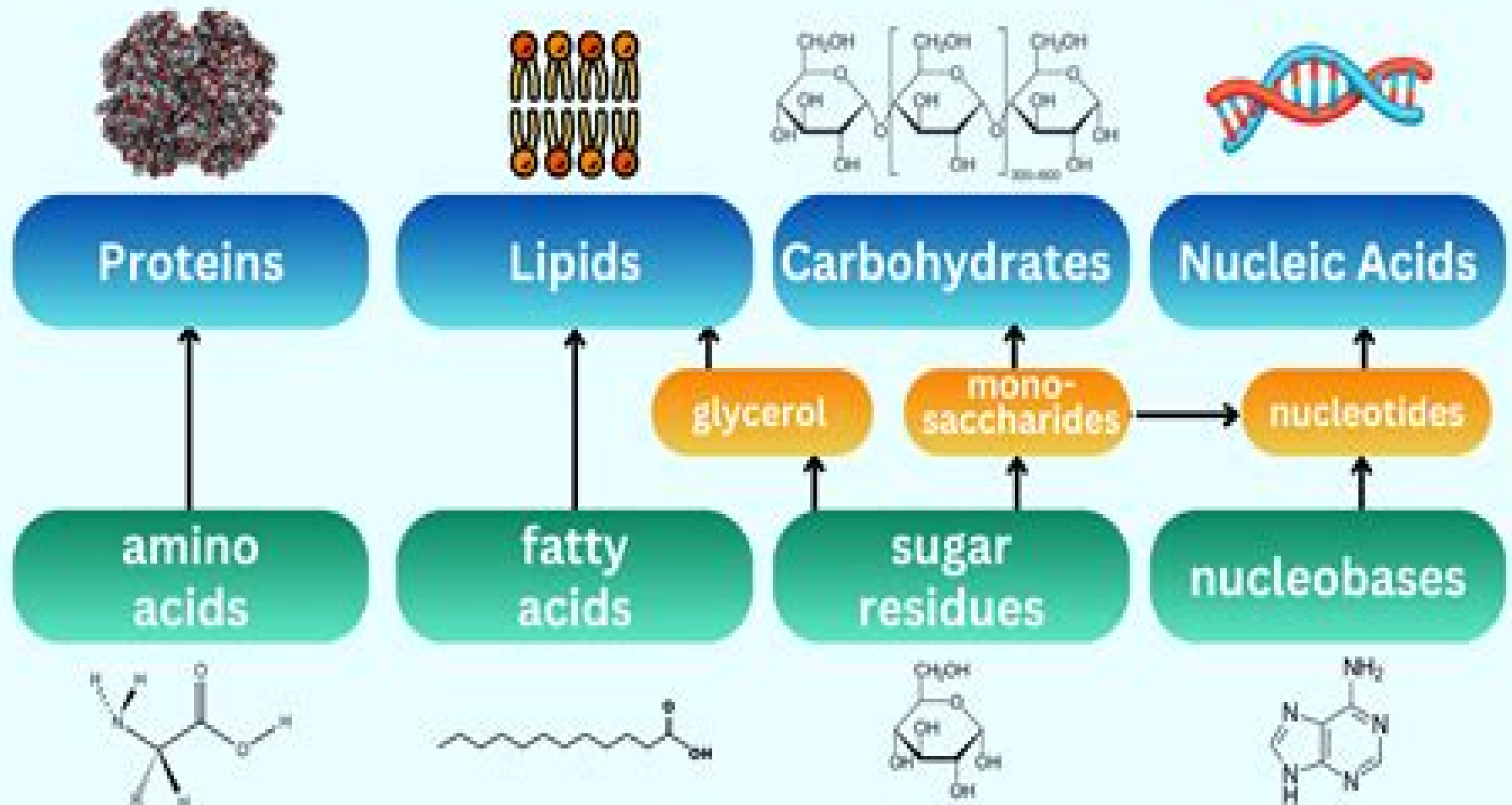


# MACROMOLECULES

A macromolecule is a large molecule that forms by polymerization, where monomer subunits form covalent bonds to make a polymer.



# Macromolecules In Solution

**Henryk Eisenberg**



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R. Zaccai,Igor N. Serdyuk,Joseph Zaccai,2017-05-18 Current techniques for studying biological macromolecules and their interactions are based on the application of physical methods ranging from classical thermodynamics to more recently developed techniques for the detection and manipulation of single molecules Reflecting the advances made in biophysics research over the past decade and now including a new section on medical imaging this new edition describes the physical methods used in modern biology All key techniques are covered including mass spectrometry hydrodynamics microscopy and imaging diffraction and spectroscopy electron microscopy molecular dynamics simulations and nuclear magnetic resonance Each method is explained in detail using examples of real world applications Short asides are provided throughout to ensure that explanations are accessible to life scientists physicists and those with medical backgrounds The book remains an unparalleled and comprehensive resource for graduate students of biophysics and medical physics in science and medical schools as well as for research scientists looking for an introduction to techniques from across this interdisciplinary field

Solutions Manual to Accompany Elements of Physical Chemistry David Smith,2013-05-30 The Solutions Manual to accompany Elements of Physical Chemistry 6th edition contains full worked solutions to all end of chapter discussion questions and exercises featured in the book The manual provides helpful comments and friendly advice to aid understanding It is also a valuable resource for any lecturer who wishes to use the extensive selection of exercises featured in the text to support either formative or summative assessment and wants labour saving ready access to the full solutions to these questions      **Selected Problems in the Theory of Macromolecules in Solution** Jeffrey Alan Marquese,1981

Introduction to the Physical Chemistry of Foods Christos Ritzoulis,2013-04-23 Introduction to the Physical Chemistry of Foods provides an easy to understand text that encompasses the basic principles of physical chemistry and their relationship to foods and their processing Based on the author's years of teaching and research experience in the physical chemistry of food this book offers the necessary depth of information and mathematical bases presented in a clear manner for individuals with minimal physical chemistry background The text begins with basic physical chemistry concepts building a foundation of knowledge so readers can then grasp the physical chemistry of food including processes such as crystallization melting distillation blanching and homogenization as well as rheology and emulsion and foam stability The chapters cover thermodynamic systems temperature and ideal gases versus real gases chemical thermodynamics and the behavior of liquids and solids along with phase transitions and the thermodynamics of small molecule and macromolecule dispersions and

solutions The text describes surface activity interfaces and adsorption of molecules Attention is paid to surface active materials with a focus on self assembled and colloidal structures Emulsions and foams are covered in a separate chapter The book also introduces some of the main macroscopic manifestations of colloidal and other interactions in terms of rheology Finally the author describes chemical kinetics including enzyme kinetics which is vital to food science This book provides a concise readable account of the physical chemistry of foods from basic thermodynamics to a range of applied topics for students scientists and engineers with an interest in food science

**Phenomenology of Polymer Solution Dynamics**

George D. J. Phillies, 2011-10-06 Presenting a completely new approach to examining how polymers move in non dilute solution this book focuses on experimental facts not theoretical speculations and concentrates on polymer solutions not dilute solutions or polymer melts From centrifugation and solvent dynamics to viscosity and diffusion experimental measurements and their quantitative representations are the core of the discussion The book reveals several experiments never before recognized as revealing polymer solution properties A novel approach to relaxation phenomena accurately describes viscoelasticity and dielectric relaxation and how they depend on polymer size and concentration Ideal for graduate students and researchers interested in the properties of polymer solutions the book covers real measurements on practical systems including the very latest results Every significant experimental method is presented in considerable detail giving unprecedented coverage of polymers in solution

Dynamics and Reactions of Macromolecules in Solution Sangyoub

Lee, 1986

*Essentials of Physical Chemistry 28th Edition* Bahl Arun/ Bahl B.S. & Tuli G.D., 2022-03 *Essentials of Physical Chemistry* is a classic textbook on the subject explaining fundamentals concepts with discussions illustrations and exercises With clear explanation systematic presentation and scientific accuracy the book not only helps the students clear misconceptions about the basic concepts but also enhances students ability to analyse and systematically solve problems This bestseller is primarily designed for B Sc students and would equally be useful for the aspirants of medical and engineering entrance examinations

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