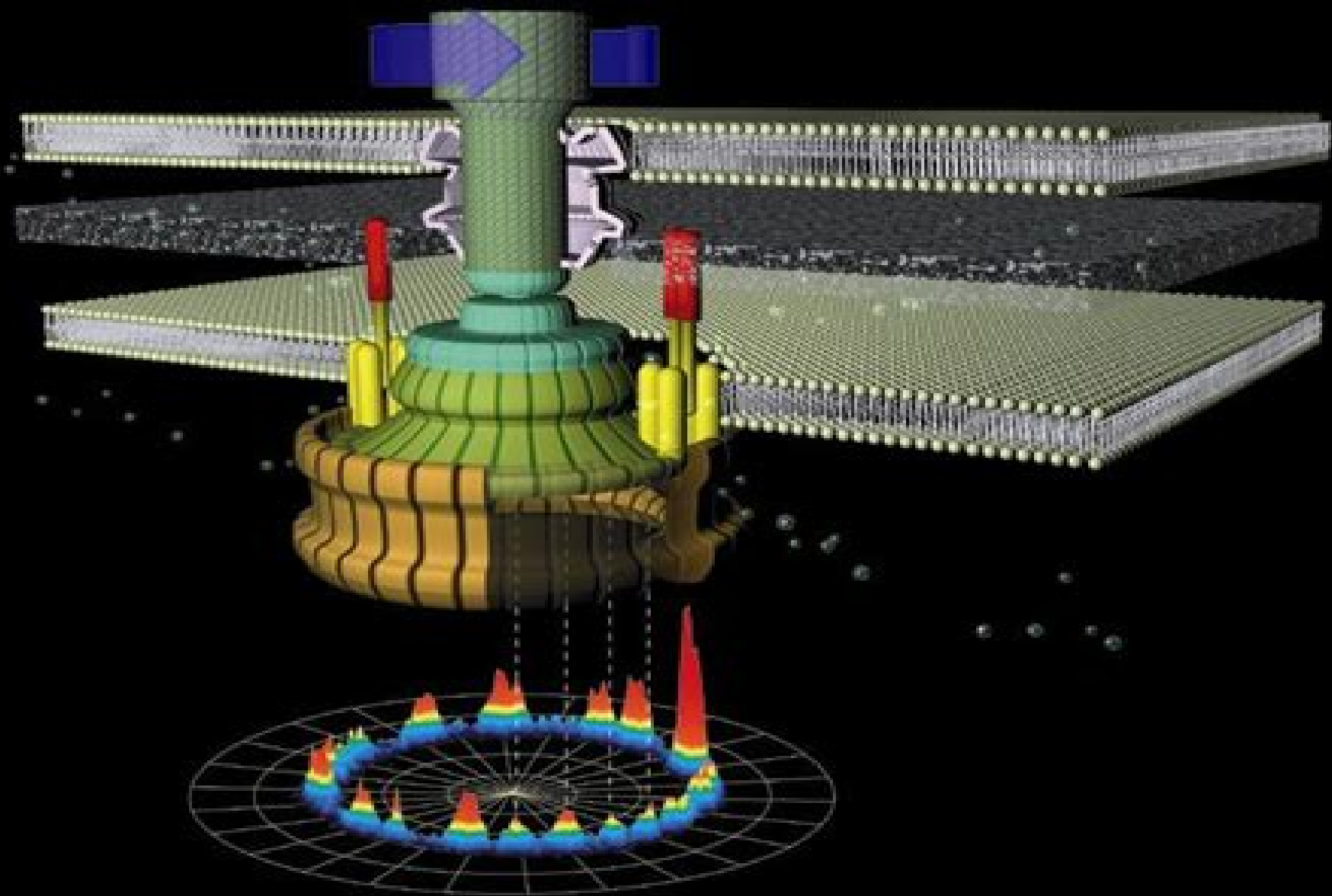




Molecular Motors

T. Ross Kelly



Molecular Motors:

Molecular Motors Manfred Schliwa, 2006-03-06 The latest knowledge on molecular motors is vital for the understanding of a wide range of biological and medical topics cell motility organelle movement virus transport developmental asymmetry myopathies and sensory defects are all related to the function or malfunction of these minute molecular machines Since there is a vast amount of information on motor mechanisms and potential biomedical and nanobiotechnological applications this handbook fulfills the need for a collection of current research results on the functionality regulation and interactions of cytoskeletal DNA and rotary motors Here leading experts present a concise insight ranging from atomic structure biochemistry and biophysics to cell biology developmental biology and pathology Basic principles and applications make this book a valuable reference tool for researchers professionals and clinicians alike all set to become a classic in the years to come

Molecular Motors Christophe Lavelle, Antoine Le Gall, 2024-12-20 This fully updated volume presents a diverse collection of protocols and methodologies for studying various molecular motors The book explores the dynamics of the bacterial flagellar motor the mechanisms of ATP synthase the assembly and function of cytoskeletal motors and the role of nucleic acid motors in cellular processes while placing a strong emphasis on state of the art techniques highlighting innovative methods such as single molecule visualization and high resolution tracking sophisticated biochemical assays bioengineering applications as well as computational modeling Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical **Molecular Motors Methods and Protocols Third Edition** serves as an ideal guide to enable researchers to probe the mechanisms of molecular motors with unprecedented precision and detail

Molecular Motors in Bionanotechnology Keith Firman, James Youell, 2013-03-18 Biological molecular motors provide most cells with the dynamic systems required for their day to day existence Examples occur in even the simplest organism e g a bacteria virus and the range of tasks that they carry out is vast Over the last few years there has been a large increase in the study of these motors and it is becoming apparent that many motors will find uses in either bionanotechnology or synthetic biology **Molecular Motors in Bionanotechnology** describes a wide range of molecular motors ranging from chemical motors to biological motors in a manner that updates or reviews both classification of the type of motor and the grouping into families Many techniques have evolved to study and characterise molecular motors at the single molecule level e g use of molecular tweezer devices for single molecule studies The text introduces the reader to the concepts and benefits of these techniques In addition it looks at the structural information and how this helps understand function and finally how some of these motors are being used or may be used in the future as part of a synthetic biology approach to building devices and sensors

Molecular Motor Fouad Sabry, 2025-03-03 In the intricate world of Biohybrid Microswimmers the Molecular Motor stands as a crucial

exploration into the microscopic engines driving life at its core This book unveils the delicate mechanisms behind molecular motors and their profound impact on science biotechnology and the future of nanotechnology Whether you re a professional in the field a graduate or undergraduate student or an enthusiast seeking to deepen your knowledge this book offers invaluable insights and a comprehensive understanding of molecular motors which are essential to the evolution of biohybrid systems

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Molecular Machines and Motors

Alberto Credi, Serena Silvi, Margherita Venturi, 2014-09-02

The cutting edge advances in this research field are nicely pictured in the chapters of this volume They come from world s leading laboratories engaged in the development of molecular machines and are authored by some of the most respected scientists in the field This volume shows on the one

hand the level of ingenuity and technical capability reached in the construction of artificial nanomachines roughly two decades after their inception On the other hand it conveys the excitement about the enormous opportunities as well as the challenges this research area presents as the interest of researchers is shifting from ensemble to single molecule measurements and from homogeneous to heterogeneous environments Indeed as Feynman said when we have some control of the arrangement of things on a molecular scale we will get an enormously greater range of possible properties that substances can have Although the answer to the when question is not easy to find there is no doubt that artificial molecular machines and motors will lead to a wide variety of applications which we cannot even envisage today The Nobel Prize in Chemistry 2016 was awarded jointly to Jean Pierre Sauvage Sir J Fraser Stoddart and Bernard L Feringa for the design and synthesis of molecular machines Both Jean Pierre Sauvage and Bernard L Feringa contributed to this volume The goal of each thematic volume in this series is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Review articles for the individual volumes are invited by the volume editors Readership research chemists at universities or in industry graduate students

Fluorescent Methods for Molecular Motors Christopher P. Toseland, Natalia Fili, 2014-08-05 This book focuses on the application of fluorescence to study motor proteins myosins kinesins DNA helicases and RNA polymerases It is intended for a large community of biochemists biophysicists and cell biologists who study a diverse collection of motor proteins It can be used by researchers to gain an insight into their first experiments or by experienced researchers who are looking to expand their research to new areas Each chapter provides valuable advice for executing the experiments along with detailed background knowledge in order to develop own experiments

Principles of Brownian and Molecular Motors José Antonio Fornés, 2021-02-04 Molecular motors convert chemical energy typically from ATP hydrolysis to directed motion and mechanical work Biomolecular motors are proteins able of converting chemical energy into mechanical motion and force Because of their dimension the many small parts that make up molecular motors must operate at energies only a few times greater than those of the thermal baths The description of molecular motors must be stochastic in nature Their actions are often described in terms of Brownian Ratchets mechanisms In order to describe the principles used in their movement we need to use the tools that theoretical physics give us In this book we centralize on the some physical mechanisms of molecular motors

Motor Proteins and Molecular Motors Anatoly B. Kolomeisky, 2015-05-21 A Unified Microscopic

Approach to Analyzing Complex Processes in Molecular Motors Motor Proteins and Molecular Motors explores the mechanisms of cellular functioning associated with several specific enzymatic molecules called motor proteins Motor proteins also known as molecular motors play important roles in living systems by supporting cellular *Coarse-grained Structural Modeling of Molecular Motors* David William Parker, 2011 Molecular motors perform central functions in fundamental biological processes including cell division DNA replication muscle contraction and intracellular transport Experimental and computational approaches are needed to uncover the mechanisms by which molecular motors convert chemical energy into mechanical work A software system called Protein Mechanica has been developed to generate structurally realistic models of molecular motor conformations compatible with experimental data from different sources It facilitates the construction of models of protein geometry from atomic resolution structures lower resolution electron microscopy data and parametric solids Coarse grained models of molecular structures are constructed by combining groups of atoms into a system of rigid bodies connected by joints Contacts between rigid bodies enforce excluded volume constraints and spring potentials model system elasticity This simplified representation allows the conformations of complex molecular motors to be simulated interactively providing a tool for hypothesis building and quantitative comparisons between models and experiments Protein Mechanica was used to build an atomic resolution model of a mouse brain myosin V a dimeric cellular transport motor in pre and post powerstroke conformations from partial X ray crystal structures A mechanical analysis of the head neck region model was performed using normal mode analyses and molecular dynamics simulations to guide the construction of a coarse grained models The coarse grained model of myosin V enabled examination of its conformations bound to its actin track Elastic strain energies calculated from simulations are compatible with observations of single myosin V motors traversing suspended actin filaments that infer that the motor uses a combination of 11 subunit and 13 subunit stride sizes These calculations extend previous simple mechanical models for step size selection and processivity and provide atomically detailed models for comparison with future experiments The Protein Mechanica software described in this dissertation provides a new tool for structural modeling of many different molecular machines basic understanding and engineering design Synthetic Molecular Motor Fouad Sabry, 2025-03-14 Welcome to Synthetic Molecular Motor the latest volume in the Nanomotor series This groundbreaking book delves into the innovative world of molecular motors exploring their principles applications and transformative potential Whether you re a professional in the field an undergraduate or graduate student or an enthusiast eager to dive into cuttingedge science this book offers insights that will enrich your understanding of molecular mechanics and their impact on the future Chapters Brief Overview 1 Synthetic molecular motor An introduction to the foundational concepts of synthetic molecular motors and their role in modern science 2 Single molecule electric motor Explore the design and functionality of electric motors at the molecular level 3 Axial chirality Understand the importance of axial chirality in the synthesis and behavior of molecular motors 4 Molecular propeller Learn about the

fascinating mechanisms that allow molecular propellers to work

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With each chapter offering a unique perspective on the cuttingedge world of molecular motors this book is a mustread for those looking to stay ahead in this rapidly advancing field

Synthetic Molecular Motor bridges theory with practical insights making it an essential resource for professionals students and hobbyists alike

Molecular Photoswitches Zbigniew L. Pianowski, 2022-06-01 A comprehensive overview about the emerging field of photoswitches and their applications in materials science and biology

Molecular Photoswitches guides the reader through the basic molecular structures of photochromic compounds and their applications in the area of photoresponsive materials as well as in the biological context

The initial chapters describe individual classes of molecular photoswitches introducing their principles of photochromism typical switching wavelengths thermal stability of photoisomers and other key information which is ordinarily spread in the literature

These classes comprise i a azobenzenes diazocines arylazoheterocycles arylhydrazones indigoids photochromic imines or acylhydrazones

The book also covers Catalysis with molecular switches Applications in photochromic porous materials liquid crystals or nanoparticles

Light responsive molecular machines logic devices and molecular magnets Photomodulation of biological systems photoswitchable biopolymers lightmodulated antibiotics cytotoxins ion channel inhibitors light propelled artificial muscles and computationally designed photochromic proteins

This two volume work is a valuable guide for researchers and non experts working in the field of photochemistry

organic chemistry catalysis materials science biology and medicine *Single Molecular Machines and Motors* Christian Joachim, Gwénaél Rapenne, 2015-01-17 *Single Molecular Machines and Motors* brings together different approaches and strategies to design synthesize and study single molecular machines and motors in a multidisciplinary way Written by leading international experts this book summarizes the advances in the field through a number of disciplines Some contributions describe molecular chemistry such as organic aromatics and coordination chemistry while others address theoretical chemistry in a predictive way or through post experimental modelling Experimental physics with extensive use of scanning probe microscopy STM and AFM is discussed for examining one single molecule This book is aimed at those who are interested in the rapidly growing field of molecular machines and motors acting and studied at the single molecule scale The goal of the authors and editors is to provide the reader with an up to date summary while also offering future perspectives on the field *Energy Coupling and Molecular Motors* Fuyuhiko Tamanoi, David D. Hackney, 2003-12-18 This volume examines a number of different molecular motors that utilize ATP The molecular machines to be discussed include ATP synthase myosin kinesin DNA helicases DNA topoisomerases chaperones and bacterial rotary motors The discussion of these various molecular motors is rarely undertaken in one volume and will serve as a great resource for scientists studying structure and function of multiprotein complexes as well as those working on energy coupling mechanisms The areas of research presented in this volume do not normally overlap and yet they share common mechanisms This volume examines a number of different molecular motors that utilize ATP The molecular machines to be discussed include ATP synthase myosin kinesin DNA helicases DNA topoisomerases chaperones and bacterial rotary motors The discussion of these various molecular motors is rarely undertaken in one volume and will serve as a great resource for scientists studying structure and function of multiprotein complexes as well as those working on energy coupling mechanisms The areas of research presented in this volume do not normally overlap and yet they share common mechanisms Nanoscale Communication Networks Stephen F. Bush, 2010 A highly useful resource for professionals and students alike this cutting edge first of its kind book provides a thorough introduction to nanoscale communication networks Written in a clear tutorial style this volume covers a wide range of the most important topics in the area from molecular communication and carbon nanotube nano networks to nanoscale quantum networking and the future direction of nano networks Moreover the book features numerous exercise problems at the end of each chapter to ensure a solid understanding of the material **Molecular Machines** T. Ross Kelly, 2005-12-20 The chapters in this volume describe bottom up strategies and chronicle cutting edge advances from several of the world s leading laboratories engaged in the development of molecular machines The Nobel Prize in Chemistry 2016 was awarded jointly to Jean Pierre Sauvage Sir J Fraser Stoddart and Bernard L Feringa for the design and synthesis of molecular machines Both Jean Pierre Sauvage and Sir J Fraser Stoddart have also contributed to this book **Motor Proteins and Molecular Motors** Anatoly B. Kolomeisky, 2015-05-21 A Unified Microscopic Approach to Analyzing Complex Processes in

Molecular Motors Motor Proteins and Molecular Motors explores the mechanisms of cellular functioning associated with several specific enzymatic molecules called motor proteins Motor proteins also known as molecular motors play important roles in living systems by supporting cellular

The Nature of the Mechanical Bond Carson J. Bruns, J. Fraser Stoddart, 2016-10-10 The story is told by THE inventor pioneer master in the field and is accompanied by amazing illustrations it will become an absolute reference and a best seller in chemistry Alberto Credi the great opus on the mechanical bond A most impressive undertaking Jean Marie Lehn Congratulations to co author J Fraser Stoddart a 2016 Nobel Laureate in Chemistry In molecules the mechanical bond is not shared between atoms it is a bond that arises when molecular entities become entangled in space Just as supermolecules are held together by supramolecular interactions mechanomolecules such as catenanes and rotaxanes are maintained by mechanical bonds This emergent bond endows mechanomolecules with a whole suite of novel properties relating to both form and function They hold unlimited promise for countless applications ranging from their presence in molecular devices and electronics to their involvement in remarkably advanced functional materials The Nature of the Mechanical Bond is a comprehensive review of much of the contemporary literature on the mechanical bond accessible to newcomers and veterans alike Topics covered include Supramolecular covalent and statistical approaches to the formation of entanglements that underpin mechanical bonds in molecules and macromolecules Kinetically and thermodynamically controlled strategies for synthesizing mechanomolecules Chemical topology molecular architectures polymers crystals and materials with mechanical bonds The stereochemistry of the mechanical bond mechanostereochemistry including the novel types of dynamic and static isomerism and chirality that emerge in mechanomolecules Artificial molecular switches and machines based on the large amplitude translational and rotational motions expressed by suitably designed catenanes and rotaxanes This contemporary and highly interdisciplinary field is summarized in a visually appealing image driven format with more than 800 illustrations covering both fundamental and applied research The Nature of the Mechanical Bond is a must read for everyone from students to experienced researchers with an interest in chemistry's latest and most non canonical bond

Mechanically Interlocked Materials Emilio M. Pérez, 2024-03-15 Mechanically Interlocked Materials Comprehensive one stop resource on the emerging world of mechanically interlocked materials MIMats Mechanically Interlocked Materials provides a thorough overview of the new emerging field in supramolecular chemistry Edited by one of the leading researchers in the field Mechanically Interlocked Materials includes information on Types of MIMats such as metal organic frameworks polymers carbon nanotubes nanoparticles and others Main advantages disadvantages of the mechanical bond of MIMats with respect to covalent or supramolecular alternatives Mechanically interlocked MI electronics molecular materials nano and micro particles nucleic acids and proteins Force in MIMs MIMs on surfaces polycatenanes sliding ring gels and potential applications of MIMats as molecular switches and binary materials With comprehensive coverage of an important emerging field Mechanically

Interlocked Materials is an essential resource for students and professionals in a variety of scientific fields including organic inorganic supramolecular and physical chemistry physics materials science and nanotechnology *Supramolecular Chemistry of Biomimetic Systems* Junbai Li, 2017-10-10 This book investigates the latest developments in supramolecular assembly systems for mimicking biological structures and functions Consisting of 14 chapters it covers various assembly systems such as polysaccharides peptides proteins biopolymers natural materials and various hybrid systems Further it focuses on different types of supramolecular systems with particular functions or structures that are relevant to living systems A number of modern techniques used to study the supramolecular systems such as total internal reflection fluorescence microscopy TIRFM and two photon confocal microscopy are also introduced in detail Unlike conventional books on supramolecular assemblies this book highlights the functions of the assembly systems particularly their biological applications As such it offers a valuable resource for experienced researchers as well as graduate students working in the field of supramolecular chemistry and biomimetic systems **Coherence and Ultrashort Pulse Laser Emission** F. J. Duarte, 2010-12-30 In this volume recent contributions on coherence provide a useful perspective on the diversity of various coherent sources of emission and coherent related phenomena of current interest These papers provide a preamble for a larger collection of contributions on ultrashort pulse laser generation and ultrashort pulse laser phenomena Papers on ultrashort pulse phenomena include works on few cycle pulses high power generation propagation in various media to various applications of current interest Undoubtedly Coherence and Ultrashort Pulse Emission offers a rich and practical perspective on this rapidly evolving field

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