

When
Meets

Topology Chemistry

A Topological Look
At Molecular Chirality



Erica Flapan

When Topology Meets Chemistry When Topology Meets Chemistry

Piotr Garbacz



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When Topology Meets Chemistry Erica Flapan, 2000-07-31 The applications of topological techniques for understanding molecular structures have become increasingly important over the past thirty years In this topology text the reader will learn about knot theory 3 dimensional manifolds and the topology of embedded graphs while learning the role these play in understanding molecular structures Most of the results that are described in the text are motivated by questions asked by chemists or molecular biologists though the results themselves often go beyond answering the original question asked There is no specific mathematical or chemical prerequisite all the relevant background is provided The text is enhanced by nearly 200 illustrations and more than 100 exercises Reading this fascinating book undergraduate mathematics students can escape the world of pure abstract theory and enter that of real molecules while chemists and biologists will find simple clear but rigorous definitions of mathematical concepts they handle intuitively in their work **When Topology**

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Erica Flapan, 2015-12-22 This book is an elementary introduction to geometric topology and its applications to chemistry molecular biology and cosmology It does not assume any mathematical or scientific background sophistication or even motivation to study mathematics It is meant to be fun and engaging while drawing students in to learn about fundamental topological and geometric ideas Though the book can be read and enjoyed by nonmathematicians college students or even eager high school students it is intended to be used as an undergraduate textbook The book is divided into three parts corresponding to the three areas referred to in the title Part 1 develops techniques that enable two and three dimensional creatures to visualize possible shapes for their universe and to use topological and geometric properties to distinguish one such space from another Part 2 is an introduction to knot theory with an emphasis on invariants Part 3 presents applications of topology and geometry to molecular symmetries DNA and proteins Each chapter ends with exercises that allow for better understanding of the material The style of the book is informal and lively Though all of the definitions and theorems are explicitly stated they are given in an intuitive rather than a rigorous form with several hundreds of figures illustrating the

exposition This allows students to develop intuition about topology and geometry without getting bogged down in technical details

Membrane Computing Gheorghe Paun, Mario J. Perez-Jimenez, Agustin Riscos-Nunez, Grzegorz Rozenberg, Arto Salomaa, 2010-01-12 This book constitutes the thoroughly refereed post workshop proceedings of the 10th International Workshop on Membrane Computing WMC 2009 held in Curtea de Arges Romania during August 24 to 27 2009 under the auspices of the European Molecular Computing Consortium EMCC and the Molecular Computing Task Force of IEEE Computational Intelligence Society The 22 revised full papers presented together with 10 invited papers went through two rounds of reviewing and improvement The papers in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in mathematics and computer science to application issues the invited lectures present fundamental contributions to membrane computing thus highlighting important directions of current research in this area

Macromolecular Separation Science André M. Striegel, 2025-06-04 This book provides a comprehensive guide to macromolecular separation science It is unique in its in depth combined coverage of the fundamentals and applications of each individual technique This includes both widely employed as well as niche methods It is also comprehensive regarding the instrumentation especially but not limited to detectors employed as well as the physical and chemical information obtained from various separations detector couplings and also from multi dimensional separations Abundant figures and tables combine to illustrate each point This book provides an indispensable guide for those working in the field of macromolecular separation science to those seeking information about individual techniques to polymer scientists and chromatographers in general and to students beginning practitioners and experts alike

Knots, Braids And Mobius Strips - Particle Physics And The Geometry Of Elementarity: An Alternative View Jack Shulman Avrin, 2015-03-13 Elementary particles in this book exist as Solitons in and of the fabric of spacetime itself As such they are characterized by their geometry that is their topology and configuration which lead directly to their physical attributes and behavior as well as to a simplification and reduction of assumptions and the importation of parameter values The emphasis of the book is thus on that geometry the algebraic geometry associated with taxonomical issues and the differential geometry that determines the physics as well as on simplifying the results In itself however the process of assembling and developing what eventually went into the book has been a singularly rewarding journey Along the way some fascinating insights and connections to known physical attributes and theories emerge some predictable but others unbidden and even unanticipated The book is intended to summarize that journey in a way that readers with a range of backgrounds will find interesting and provocative Connections to other physical theories and subjects are also discussed A most gratifying development is the emergence of a unifying principle underlying the epistemological structure of not only the elementary particles but of such diverse fields as Radar Quantum mechanics Biology Cosmology and the Philosophy of science

Physical Principles of Chirality in NMR Piotr Garbacz, 2024-09-20 How can we study one of the most elusive molecular properties chirality using nuclear interactions with

the magnetic field that are apparently insensitive to handedness This book answers this question from the physicochemical point of view by providing a clear coherent and comprehensive review of methods used in NMR studies of chirality Presented arguments based on fundamental physical and chemical laws and in depth descriptions of new methods utilizing purely physical interactions are mainly addressed to spectroscopists in both academia and industry The introductory chapters provide the reader with the basics of NMR spectroscopy as a tool for the study of chiral compounds and those more interested in the methods of chiral discrimination will benefit from the brief description of their common points and reasons why some of them may or may not work In the following chapters the book shows rapid progress in a newly emerging field of chirality sensitive NMR in particular a search for effects that give direct information about the absolute configuration of a molecule

Physical Knots: Knotting, Linking, and Folding Geometric Objects in $\mathbb{R}^3$ Jorge Alberto Calvo, Kenneth C. Millett, Eric J. Rawdon, 2002 The properties of knotted and linked configurations in space have long been of interest to physicists and mathematicians More recently and more widely they have become important to biologists chemists computer scientists and engineers The depth and breadth of their applications are widely appreciated Nevertheless fundamental and challenging questions remain to be answered Based on a Special Session at the AMS Sectional Meeting in Las Vegas NV in April 2001 this volume discusses critical questions and introduces new ideas that will stimulate multi disciplinary applications Some of the papers are primarily theoretical others are experimental Some are purely mathematical others deal with applications of mathematics to theoretical computer science engineering physics biology or chemistry Connections are made between classical knot theory and the physical world of macromolecules such as DNA geometric linkages rope and even cooked spaghetti This book introduces the world of physical knot theory in all its manifestations and points the way for new research It is suitable for a diverse audience of mathematicians computer scientists engineers biologists chemists and physicists

Encyclopedia of Biocolloid and Biointerface Science, 2 Volume Set Hiroyuki Ohshima, 2016-09-26 Diese Enzyklopädie konzentriert sich einzig und allein auf Biokolloide und Biogrenzflächen Hauptthema sind nicht die wissenschaftlichen Aspekte rund um Kolloide und Grenzflächen Mit Biokolloiden und Biogrenzflächen beschäftigen sich immer mehr Wissenschaftler und in dieser Enzyklopädie werden zur Untersuchung von Phänomenen in biologischen Systemen weiche Partikel und weiche Grenzflächen als Oberflächenmodelle herangezogen Beschreibt detailliert die grundlegenden Theorien und erläutert die physikalisch-chemischen und theoretischen Aspekte der Biokolloid- und Biogrenzflächenwissenschaft Beinhaltet auch eine ausführliche Beschreibung der weichen Grenzflächen und Oberflächen Beschäftigt sich ebenfalls mit Anwendungen der Grundlagentheorien von Biokolloiden und Biogrenzflächen auf die Nano-Bio- und Umweltwissenschaften Ein nützliches Nachschlagewerk genau zur richtigen Zeit für Forscher und Absolventen im Bereich der Biokolloid- und Biogrenzflächenwissenschaft sowie für Ingenieure der Fachrichtungen

Topology of Polymers Koya Shimokawa, Kai Ishihara, Yasuyuki Tezuka, 2019-12-06 Plastics films and synthetic fibers are among typical examples of

polymer materials fabricated industrially in massive quantities as the basis of modern social life. By comparison polymers from biological resources including proteins, DNAs and cotton fibers are essential in various processes in living systems. Such polymers are molecular substances constituted by the linking of hundreds to tens of thousands of small chemical unit monomer components. Thus the form of polymer molecules is frequently expressed by line geometries and their linear and non linear forms are believed to constitute the fundamental basis for their properties and functions. In the field of polymer chemistry and polymer materials science the choice of macromolecules has continuously been extended from linear or randomly branched forms toward a variety of precisely controlled topologies by the introduction of intriguing synthetic techniques. Moreover during the first decade of this century a number of impressive breakthroughs have been achieved to produce an important class of polymers having a variety of cyclic and multicyclic topologies. These developments now offer unique opportunities in polymer materials design to create unique properties and functions based on the form i.e. topology of polymer molecules. The introduction and application of topological geometry (soft geometry) to polymer molecules is a crucial requirement to account for the basic geometrical properties of polymer chains uniquely flexible in nature in contrast to small chemical compounds conceived upon Euclidian geometry (hard geometry) principles. Topological geometry and graph theory are introduced for the systematic classification and notation of the non linear constructions of polymer molecules including not only branched but also single cyclic and multicyclic polymer topologies. On that basis the geometrical topological relationship between different polymers having distinctive constructions is discussed. A unique conception of topological isomerism is thus formed which contrasts with that of conventional constitutional and stereoisomerism occurring in small chemical compounds. Through the close collaboration of topology experts Shimokawa and Ishihara and the polymer chemist Tezuka this monograph covers the fundamentals and selected current topics of topology applied in polymers and topological polymer chemistry. In particular the aim is to provide novel insights jointly revealed through a unique interaction between mathematics topology and polymer materials science.

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