



Philip Ball

MOLECULES

A Very Short Introduction

OXFORD

Molecules A Very Short Introduction

H. James Birx



Molecules A Very Short Introduction:

Chemistry Peter William Atkins, 2015 In this Very Short Introduction Peter Atkins inspires us to look at chemistry through new eyes Considering the remarkable achievements chemistry has made he presents a fascinating clear and rigorous exploration of the world of chemistry its structure core concepts and contributions to the material comfort and culture of the modern world

Molecules Philip Ball, 2003-11-27 The processes in a single living cell are akin to that of a city teeming with molecular inhabitants that move communicate cooperate and compete In this Very Short Introduction Philip Ball explores the role of the molecule in and around us how for example a single fertilized egg can grow into a multi celled Mozart what makes spider s silk insoluble in the morning dew and how this molecular dynamism is being captured in the laboratory promising to reinvent chemistry as the central creative science of the century ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Molecular Biology Aysha Divan, Janice Royds, 2016 Molecular Biology lies at the heart of all life sciences This Very Short Introduction provides an account of the development of this important modern field and considers its modern day applications such as the development of new drugs genetically modified crops and forensic science

Chemistry: A Very Short Introduction Peter Atkins, 2015-02-26 Most people remember chemistry from their schooldays as largely incomprehensible a subject that was fact rich but understanding poor smelly and so far removed from the real world of events and pleasures that there seemed little point except for the most introverted in coming to terms with its grubby concepts spells recipes and rules Peter Atkins wants to change all that In this Very Short Introduction to Chemistry he encourages us to look at chemistry anew through a chemist s eyes in order to understand its central concepts and to see how it contributes not only towards our material comfort but also to human culture Atkins shows how chemistry provides the infrastructure of our world through the chemical industry the fuels of heating power generation and transport as well as the fabrics of our clothing and furnishings By considering the remarkable achievements that chemistry has made and examining its place between both physics and biology Atkins presents a fascinating clear and rigorous exploration of the world of chemistry its structure core concepts and exciting contributions to new cutting edge technologies ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Water: A Very Short Introduction John Finney, 2015-08-27 Water dominates the surface of Earth and is vital to life on our planet It is a remarkable liquid which shows anomalous behaviour In this Very Short Introduction John Finney introduces the science of water and explores how the structure of water molecules gives rise

to its physical and chemical properties Considering water in all three of its states as ice and steam as well as liquid Finney explains the great importance of an understanding of its structure and behaviour to a range of fields including chemistry astrophysics and earth and environmental sciences Finney describes the role of water in biology and ends with a discussion of the outstanding controversies concerning water and some of the magical properties which have been claimed for it

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Organic Chemistry: A Very Short Introduction Graham Patrick, 2017-03-16 Organic chemistry is the chemistry of compounds of carbon The ability of carbon to link together to form long chain molecules and ring compounds as well as bonding with many other elements has led to a vast array of organic compounds These compounds are central to life forming the basis for organic molecules such as nucleic acids proteins carbohydrates and lipids In this Very Short Introduction Graham Patrick covers the whole range of organic compounds and their roles Beginning with the structures and properties of the basic groups of organic compounds he goes on to consider organic compounds in the areas of pharmaceuticals polymers food and drink petrochemicals and nanotechnology He looks at how new materials in particular the single layer form of carbon called graphene are opening up exciting new possibilities for applications and discusses the particular challenges of working with carbon compounds many of which are colourless Patrick also discusses techniques used in the field

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Enzymes: A Very Short Introduction Paul Engel, 2020-11-26 Enzymes are the astonishing tiny molecular machines that make life possible Each one of these small proteins speeds up a single chemical reaction inside a living organism many millionfold Working together teams of enzymes carry out all the processes that collectively we recognise as life from making DNA to digesting food This Very Short Introduction explains the why and the how of speeding up these reactions catalysis before going on to reveal how we have evolved these catalysts of such extraordinary power and exquisite selectivity Paul Engel shows how X ray crystallography has revealed the complex molecular shapes that allow enzymes to function at an extraordinarily sophisticated level He also examines medical aspects of enzymes both in the way faulty enzymes cause disease and in the way enzymes can be used for diagnosis and therapy Finally he looks at the many varied ways in which individual enzymes taken out of their biological context are used nowadays as tools in washing powders food production waste treatment and chemical synthesis

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Genes: A Very Short Introduction Jonathan Slack, 2014-09-25 In this exploration of the concept of the gene Jonathan Slack looks at the discovery nature and role of genes in both evolution and development Explaining the nature of genetic variation in the human population how hereditary factors were identified as molecules of DNA and how certain specific mutations can lead to disease Slack highlights how DNA variants are used to trace human ancestry and migration and can also be used by forensic scientists to identify individuals in crime He also explores issues such as the role of genetic heritability and IQ as well as the changes that occur in the genes of populations during evolution An ideal guide for anyone curious about what genes are and how genetics can be put to use this Very Short Introduction demonstrates the ways in which the gene concept has been understood and used by molecular biologists population biologists and social scientists around the world ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

The Immune System: A Very Short Introduction Paul Klenerman, 2017-11-30 The immune system is central to human health and the focus of much medical research Growing understanding of the immune system and especially the creation of immune memory long lasting protection which can be harnessed in the design of vaccines have been major breakthroughs in medicine In this Very Short Introduction Paul Klenerman describes the immune system and how it works in health and disease In particular he focuses on the human immune system considering how it evolved the basic rules that govern its behaviour and the major health threats where it is important The immune system comprises a series of organs cells and chemical messengers which work together as a team to provide defence against infection Klenerman discusses these components the critical signals that trigger them and how they exert their protective effects including so called innate immune responses which react very fast to infection and adaptive immune responses which have huge diversity and a capacity to recognise and defend against a massive array of micro organisms Klenerman also considers what happens when our immune systems fail to be activated effectively leading to serious infections problems with inherited diseases and also HIV AIDS At the opposite extreme as Klenerman shows an over exaggerated immune response leads to inflammatory diseases such as Multiple Sclerosis and Rheumatoid Arthritis as well as allergy and asthma Finally he looks at the Immune system v2 o how immune therapies and vaccines can be advanced to protect us against the major diseases of the 21st century ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Physical Chemistry: A Very Short Introduction Peter Atkins, 2014-04-24 With the development of a variety of exciting new areas of

research involving computational chemistry nano and smart materials and applications of the recently discovered graphene there can be no doubt that physical chemistry is a vitally important field It is also perceived as the most daunting branch of chemistry being necessarily grounded in physics and mathematics and drawing as it does on quantum mechanics thermodynamics and statistical thermodynamics With his typical clarity and hardly a formula in sight Peter Atkins *Very Short Introduction* explores the contributions physical chemistry has made to all branches of chemistry Providing an insight into its central concepts Atkins reveals the cultural contributions physical chemistry has made to our understanding of the natural world ABOUT THE SERIES The *Very Short Introductions* series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Bacteria: A Very Short Introduction Sebastian G. B. Amyes, 2013-05-30 Bacteria form a fundamental branch of life They are the oldest forms of life as we know it and they are still the most prolific living organisms They inhabit every part of the Earth's surface its ocean depths and even terrains such as boiling hot springs They are most familiar as agents of disease but benign bacteria are critical to the recycling of elements and all ecology as well as to human health In this *Very Short Introduction* Sebastian Amyes explores the nature of bacteria their origin and evolution bacteria in the environment and bacteria and disease In looking at our efforts to manage co evolving bacteria he also considers the challenges of resistance to antibiotics ABOUT THE SERIES The *Very Short Introductions* series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Nothing: A Very Short Introduction Frank Close, 2009-06-25 What is the void What remains when you take all the matter away Can empty space nothing exist This text explores the science history of the elusive void from Aristotle's theories to black holes quantum particles why our very latest discoveries about the vacuum can tell us extraordinary things about the cosmos

Stars: A Very Short Introduction A. R. King, 2012-07-26 Stars are a constant source of fascination In this *Very Short Introduction* Andrew King introduces us to the science of stars how they are born how they live and how they die He shows how understanding the stars is the key to understanding the galaxies they inhabit and how they provide us with clues to the existence of planets like our own

Smell: A Very Short Introduction Matthew Cobb, 2020-05-28 Our sense of smell or olfaction as it is technically known is our most enigmatic sense It can conjure up memories taking us back to very specific places and emotions whilst powerful smells can induce strong feelings of hunger or nausea In the animal kingdom smell can be used to find food a mate or a home to sense danger and to send and receive complex messages with other members of a species Yet despite its fundamental importance in our mental life and in the existence of all animals our scientific understanding of how smell works is limited In this *Very Short Introduction* Matthew

Cobb describes the latest scientific research on smell in humans and other mammals in insects and even in fish He looks at how smell evolved how animals use it to navigate and communicate and disorders of smell in humans Understanding smell especially its neurobiology has proved a big challenge but olfactory science has revealed genetic factors that determine what we can and cannot smell and why some people like a given smell while others find it unbearable He ends by considering future treatments for smell disorders and speculating on the role of smell in a world of robots ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Soft Matter: A Very Short**

Introduction Tom McLeish, 2020-10-22 Soft Matter science is concerned with soft materials such as polymers colloids liquid crystals and foams and has emerged as a rich interdisciplinary field over the last 30 years Drawing on physics chemistry mathematics and engineering soft matter links fundamental scientific ideas to everyday phenomena One such example is polymers encountered in plastic materials and melted cheese which illustrate how sliminess emerges from the flow and form of giant molecules This Very Short Introduction delves into the field of soft matter looking beneath the appearances of matter into its inner structure Tom McLeish shows how Brownian Motion the random local motion of molecules that gives rise to heat is an underlying principle of soft matter From hair conditioner to honey he discusses how the shared physical properties and characteristics of these materials influence the way they behave and their industrial applications ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *Chemistry: A Very Short Introduction* Peter Atkins, 2015-02-26 Most people remember chemistry from their schooldays as largely incomprehensible a subject that was fact rich but understanding poor smelly and so far removed from the real world of events and pleasures that there seemed little point except for the most introverted in coming to terms with its grubby concepts spells recipes and rules Peter Atkins wants to change all that In this Very Short Introduction to Chemistry he encourages us to look at chemistry anew through a chemist's eyes in order to understand its central concepts and to see how it contributes not only towards our material comfort but also to human culture Atkins shows how chemistry provides the infrastructure of our world through the chemical industry the fuels of heating power generation and transport as well as the fabrics of our clothing and furnishings By considering the remarkable achievements that chemistry has made and examining its place between both physics and biology Atkins presents a fascinating clear and rigorous exploration of the world of chemistry its structure core concepts and exciting contributions to new cutting edge technologies ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These

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Questions Peter Limm,2015-09-23 This is not a conventional book It is designed to stimulate and challenge all people who are curious to find out about the world they inhabit and their place within it It does this by suggesting questions and lines of questioning on a wide range of topics The book does not provide answers or model arguments but prompts people to create their own questions and a reading log or journal To this end almost all questions have a list of books or articles to provide a starter for stimulating further reading Once you start you will be hooked Never stop questioning *Infobiotics* Vincenzo

Manca,2013-03-12 The book presents topics in discrete biomathematics Mathematics has been widely used in modeling biological phenomena However the molecular and discrete nature of basic life processes suggests that their logic follow principles that are intrinsically based on discrete and informational mechanisms The ultimate reason of polymers as key element of life is directly based on the computational power of strings and the intrinsic necessity of metabolism is related to the mathematical notion of multiset The switch of the two roots of bioinformatics suggests a change of perspective In bioinformatics the biologists ask computer scientists to assist them in processing biological data Conversely in infobiotics mathematicians and computer scientists investigate principles and theories yielding new interpretation keys of biological phenomena Life is too important to be investigated by biologists alone and though computers are essential to process data from biological laboratories many fundamental questions about life can be appropriately answered by a perspicacious intervention of mathematicians computer scientists and physicists who will complement the work of chemists biochemists biologists and medical investigators The volume is organized in seven chapters The first part is devoted to research topics Discrete information and life Strings and genomes Algorithms and Biorhythms Life Strategies the second one to mathematical backgrounds Numbers and Measures Languages and Grammars Combinations and Chances **Encyclopedia**

of Time H. James Birx,2009-01-13 Surveying the major facts concepts theories and speculations that infuse our present comprehension of time the Encyclopedia of Time Science Philosophy Theology and Culture explores the contributions of scientists philosophers theologians and creative artists from ancient times to the present By drawing together into one collection ideas from scholars around the globe and in a wide range of disciplines this Encyclopedia will provide readers with a greater understanding of and appreciation for the elusive phenomenon experienced as time Features Surveys historical thought about time including those that emerged in ancient Greece early Christianity the Italian Renaissance the Age of Enlightenment and other periods Covers the original and lasting insights of evolutionary biologist Charles Darwin physicist Albert Einstein philosopher Alfred North Whitehead and theologian Pierre Teilhard de Chardin Discusses the significance of time in the writings of Isaac Asimov Samuel Taylor Coleridge Fyodor M Dostoevsky Francesco Petrarck and numerous other authors Includes the contributions of naturalists philosophers physicists theologians astronomers anthropologists geologists

paleontologists and psychologists Includes artists portrayals of the fluidity of time including painter Salvador Dali's *The Persistence of Memory* and *The Discovery of America* by Christopher Columbus and writers Gustave Flaubert's *The Temptation of Saint Anthony* and Henryk Sienkiewicz's *Quo Vadis* Provides a truly interdisciplinary approach with discussions of Aztec Buddhist Christian Egyptian Ethiopian Islamic Hindu Navajo and many other cultures conceptions of time

The MEMS Handbook Mohamed Gad-el-Hak, 2001-09-27 The revolution is well underway Our understanding and utilization of microelectromechanical systems MEMS are growing at an explosive rate with a worldwide market approaching billions of dollars In time microdevices will fill the niches of our lives as pervasively as electronics do right now But if these miniature devices are to fulfill their mammoth potential today's engineers need a thorough grounding in the underlying physics modeling techniques fabrication methods and materials of MEMS The *MEMS Handbook* delivers all of this and more Its team of authors unsurpassed in their experience and standing in the scientific community explore various aspects of MEMS their design fabrication and applications as well as the physical modeling of their operations Designed for maximum readability without compromising rigor it provides a current and essential overview of this fledgling discipline

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