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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. From ancient Greek theory to the explosive discoveries of the 20th century, this authoritative history shows how major chemists, their discoveries, and political, economic, and social developments transformed chemistry into a modern science. 209 illustrations. 14 tables. Bibliographies. Indices. Appendices. Explores the world of chemistry, including its structure, core concepts, and contributions to human culture and material comforts. Peter Atkins' Very Short Introduction explores the contributions physical chemistry has made to all branches of chemistry. Providing insight into its central concepts Atkins reveals the cultural contributions physical chemistry has made to our understanding of the natural world. Come along on a science adventure to discover how molecules form groups, how chemicals interact, and so much more! This fun question and answer book has everything from facts and figures to simple diagrams and hilarious illustrations to help you learn introductory chemistry terms and concepts, including states of matter, chemical reactions, atoms, compounds, elements, molecules, and more. This classic

exposition explores the origins of chemistry, alchemy, early medical chemistry, nature of atmosphere, theory of valency, laws and structure of atomic theory, and much more. "This useful writing guide, by a team that includes two prominent chemists and the author of Pearson's best-selling *A Short Guide to Writing About Biology*, teaches students to think as chemists and to express ideas clearly and concisely through their writing"--Back cover

The only textbook designed specifically for the one-semester short course in organic chemistry, this market leader appeals to a range of non-chemistry science majors through its emphasis on practical, real-life applications, coverage of basic concepts, and engaging visual style. In contrast to other texts for the course that are streamlined versions of full-year texts, this text was created from the ground up to offer a writing style, approach, and selection of topics that uniquely meet the needs of the short course. The Thirteenth Edition builds on the strengths of previous editions through an updated, dynamic art program—online, on CD, and in the text—new content that keeps students current with developments in the organic chemistry field, and a revised lab manual. A concise review aid for the New York State syllabus in chemistry and a means of preparing for the Regents Examination. Includes Regents Examinations from 1994-1999. Also

includes a College Board Review section. Aimed at the single semester organic chemistry course, this text emphasizes understanding rather than memorization, focusing on the mechanisms by which organic reactions take place. A luminous guide to how the radical new science of counterfactuals can reveal that the scope of the universe is greater, and more beautiful, than we ever imagined. There is a vast class of things that science has so far almost entirely neglected. They are central to the understanding of physical reality both at an everyday level and at the level of the most fundamental phenomena in physics, yet have traditionally been assumed to be impossible to incorporate into fundamental scientific explanations. They are facts not about what is (the actual) but about what could be (counterfactuals). According to physicist Chiara Marletto, laws about things being possible or impossible may generate an alternative way of providing explanations. This fascinating, far-reaching approach holds promise for revolutionizing the way fundamental physics is formulated and for providing essential tools to face existing technological challenges--from delivering the next generation of information-processing devices beyond the universal quantum computer to designing AIs. Each chapter in the book delineates how an existing vexed open problem in science can be solved by this radically different approach and it

is augmented by short fictional stories that explicate the main point of the chapter. As Marletto demonstrates, contemplating what is possible can give us a more complete and hopeful picture of the physical world. Detailing the latest rules and international practice, this new volume can be considered a guide to the essential organic chemical nomenclature, commonly described as the "Blue Book". The history of chemistry represents a time span from ancient history to the present. By 1000 BC, civilizations used technologies that would eventually form the basis to the various branches of chemistry. Examples include extracting metals from ores, making pottery and glazes, fermenting beer and wine, extracting chemicals from plants for medicine and perfume, rendering fat into soap, making glass, and making alloys like bronze. The protoscience of chemistry, alchemy, was unsuccessful in explaining the nature of matter and its transformations. However, by performing experiments and recording the results, alchemists set the stage for modern chemistry. The distinction began to emerge when a clear differentiation was made between chemistry and alchemy by Robert Boyle in his work *The Sceptical Chymist* (1661). While both alchemy and chemistry are concerned with matter and its transformations, chemists are seen as applying scientific method to their work. Chemistry is considered to have become an

established science with the work of Antoine Lavoisier, who developed a law of conservation of mass that demanded careful measurement and quantitative observations of chemical phenomena. The history of chemistry is also intertwined with the history of thermodynamics. This book gives a comprehensive current overview on the history of the science of chemistry. From man's first exploration of natural materials and their transformations to today's materials science, chemistry has always been the central discipline that underpins both the physical and biological sciences, as well as technology. In this Very Short Introduction, William H Brock traces the unique appeal of this fundamental science throughout history. Covering alchemy, early-modern chemistry, pneumatic chemistry and Lavoisier's re-interpretation of chemical change, the rise of organic and physical chemistry, and the transforming power of synthesis, Brock explores the extraordinary and often puzzling transformations of natural and artificial materials, as well as the men and women who experimented, speculated, and explained matter and change.

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. This 1661 classic defines the term "element" and asserts that all natural phenomena can be explained by the motion and organization of primary particles. 1911 edition. An introduction to the core concepts of organic chemistry which brings them together with unifying principles and relates them to applications of interest. This volume allows students to organize reactions by reaction type and/or mechanism type to see relationships via summaries in the text.

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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