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Chemistry of Life The Physics and Chemistry of Life The Chemistry of Plant
Life Chemistry for the Life Sciences The Molecules of Life The Origin and
Early Evolution of Life: Prebiotic Chemistry of Biomolecules Basic Organic
Chemistry for the Life Sciences The Chemistry of Evolution Lavoisier and the
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Life Chemistry in Modern Life Transformer: The Deep Chemistry of Life and
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Health and Illness E-Book The Chemistry of Some Life Processes The Limits
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CHEMISTRY IN DAILY LIFE Water Armchair Chemistry Chemistry
Bioinorganic Chemistry -- Inorganic Elements in the Chemistry of Life
Nucleic Acids in Chemistry and Biology Chemistry at Extreme Conditions
What is Life? Chemistry for Breakfast*

*Solutions Manual to Accompany Physical Chemistry for the Life Sciences May
07 2021 This solutions manual contains fully-worked solutions to all end-of-
chapter discussion questions and exercises featured in 'Physical Chemistry for
the Life Sciences.*

*The Physics and Chemistry of Life May 19 2022 This book is concerned with
life as a physical process. The questions raised here are the kind that can be
answered wholly within the disciplines that explain the behavior of non-living
atoms and molecules.*

Water Mar 25 2020 This book will provide an understanding of the behavioural properties of water which is fundamental to gaining an appreciation of many scientific processes and principles.

Chemistry Jan 23 2020 Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

The Molecules of Life Feb 16 2022 This textbook provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health sciences. It is particularly suitable for students planning to enter the pharmaceutical industry. This new generation of molecular biologists and biochemists will harness the tools and insights of physics and chemistry to exploit the emergence of genomics and systems-level information in biology, and will shape the future of medicine.

The Chemistry of Life Dec 26 2022 First published in 1966, THE CHEMISTRY OF LIFE has held its own as a clear and authoritative introduction to the world of biochemistry. This fourth edition has been fully updated and revised to include the latest developments in DNA and protein synthesis, cell regulation, and their social and medical implications.

Chemistry Jun 27 2020 Chemistry: The Molecules of Life emphasizes the fundamentals of chemistry to create a foundation of knowledge and connects the content to students' lives with relevant and contemporary examples. This text encourages students to develop problem-solving skills with practice exercises, worked examples, and support material. Chemistry: The Molecules of Life engages students from all majors with a wide range of pedagogical features and demonstrates chemistry's relevance to everyday life. Rather than presenting chemistry as an isolated discipline, Chemistry: The Molecules of Life emphasizes the importance of chemical knowledge for understanding the molecular basis of life, which is relevant to students' health, environment, and everyday experiences. This contextual focus promotes scientific literacy and helps students develop the critical thinking skills needed to evaluate scientific information presented in the media and make informed decisions about their personal well-being.

Chemistry and Life Feb 04 2021

Bioinorganic Chemistry -- Inorganic Elements in the Chemistry of Life Dec 22 2019 The field of Bioinorganic Chemistry has grown significantly in recent years; now one of the major sub-disciplines of Inorganic Chemistry, it has also pervaded other areas of the life sciences due to its highly interdisciplinary nature. *Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life, Second Edition* provides a detailed introduction to the role of inorganic elements in biology, taking a systematic element-by-element approach to the topic. The second edition of this classic text has been fully revised and updated to include new structure information, emerging developments in the field, and an increased focus on medical applications of inorganic compounds.

New topics have been added including materials aspects of bioinorganic chemistry, elemental cycles, bioorganometallic chemistry, medical imaging and therapeutic advances. Topics covered include: Metals at the center of photosynthesis Uptake, transport, and storage of essential elements Catalysis through hemoproteins Biological functions of molybdenum, tungsten, vanadium and chromium Function and transport of alkaline and alkaline earth metal cations Biomineralization Biological functions of the non-metallic inorganic elements Bioinorganic chemistry of toxic metals Biochemical behavior of radionuclides and medical imaging using inorganic compounds Chemotherapy involving non-essential elements This full color text provides a concise and comprehensive review of bioinorganic chemistry for advanced students of chemistry, biochemistry, biology, medicine and environmental science.

The Chemistry of Plant and Animal Life Sep 11 2021

The Chemistry of Plant Life Apr 18 2022 Reproduction of the original.

Chemistry for Breakfast Aug 18 2019 A whirlwind romp through everyday science, perfect for fans of *How Stuff Works*, *Stuff You Should Know* and Netflix's *Explained*. In this quirky and endlessly surprising book, scientist and award-winning YouTuber Dr. Mai Thi Nguyen-Kim tells us about the amazing science behind everyday things (like drinking water,) and not-so-everyday things (like space travel and baby dinosaurs). Come along for the ride of a lifetime! Perfect for armchair scientists: a wide range of information means readers will never get bored. Told over the course of a single day: Mai shows

the scientific reactions that occur from morning to bedtime. Quirky illustrations: break up the text and help readers visualize scientific reactions. Surprising facts: learn why an alarm clock triggers fight-or-flight, what alcohol does to our bodies (and minds), and the science behind the term "love drunk" (plus so much more). See the world in a new way: Mai shows us that science is behind everything we do and feel. Accessible and fun: Mai shows us that we don't have to be scientists to think like one. Chemistry for Breakfast turns the ordinary into extraordinary, explaining everything from heat conduction to expiration dates, with a side of states-of-matter and biological clocks. With Mai as your guide, you'll find something fascinating in everything around you. (You'll also sound smarter at dinner parties.)

Physical Chemistry for the Life Sciences Mar 05 2021 Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology.

What is Life? Sep 23 2022 In his famous 1944 text "What is Life?" Erwin Schrödinger pointed out how strange living systems appeared to be when viewed from a strictly physical standpoint. All living systems are highly organized and the emergence of these organized systems would seem to contradict the most basic tenets of physics and chemistry, which say that systems tend toward chaos and disorder. What is even more remarkable is that despite dramatic developments in molecular biology in the half century since Schrödinger's remarks, we still don't understand what life is or how it relates to the inanimate world. In addressing Schrodinger's classic question, renowned scientist Addy Pross offers a radically new approach to these fundamental questions of biology--what is life and how did it emerge. Pross examines these issues from a chemical perspective, providing a new understanding of how the sciences of chemistry and biology relate to one another. Pross shows that recent developments in a new area of chemistry called "systems chemistry" now allow researchers to outline the chemistry-biology connection, shedding light on how and why some prebiotic chemical systems are able to make the magical transformation from inanimate to animate. Through the application of these simple chemical concepts, this book reveals the essence of the animate-inanimate connection, explains the strange properties of living systems in chemical terms, and offers profound new

insights into classical biological issues, such the mechanism and driving force for evolution and the origin of altruism. Pross reveals that the emergence of life on earth and classical Darwinian theory are intimately related--that Darwinian theory is just the biological expression of a more general chemical principle, one that Darwin himself predicted would likely be uncovered in time.

Basic Organic Chemistry for the Life Sciences Dec 14 2021 This book is designed for students of biology, molecular biology, ecology, medicine, agriculture, forestry and other professions where the knowledge of organic chemistry plays the important role. The work may also be of interest to non-professionals, as well as to teachers in high schools. The book consists of 11 chapters that cover: - basic principles of structure and constitution of organic compounds, - the elements of the nomenclature, - the concepts of the nature of chemical bond, - introductions in NMR and IR spectroscopy, - the concepts and main classes of the organic reaction mechanisms, - reactions and properties of common classes or organic compounds, - and the introduction to the chemistry of the natural organic products followed by basic principles of the reactions in living cells.

Catch Up Chemistry Jul 29 2020 Many students now begin life and medical science degrees with far less knowledge of chemistry than they need - and they struggle as a result. Catch Up Chemistry brings students up to speed with the subject quickly and easily. The book puts the essential chemistry into real biological context and is written in an extremely student-friendly manner: the text is concise and to the point; the equations are clearly laid out and explained. Key Features: ?Provides all the core chemistry required for a medical sciences degree ?Numerous examples to demonstrate the relevance to biology and medicine ?Test Yourself questions at the end of each chapter to help the reader practise what they have learned ?Student-friendly format and price

Lavoisier and the Chemistry of Life Oct 12 2021 '... Holmes book will profoundly affect historians' views of Lavoisier's methods and achievements, of the nature of the Chemical Revolution, and more broadly, of the methodologies appropriate to the history of science.' --Evan M. Melhado, 'Isis' Chemicals for Life and Living Oct 24 2022 Chemicals often have a negative

Image among the general public. But there is no material world or indeed human beings without chemicals. The material world is operated by chemicals. The title 'Chemicals for Life and Living' implies that the material world is staged and played by chemicals. The book consists of five parts and an appendix. Part 1 – Essentials for life; Part 2 – Enhancing health; Part 3 – For the fun of life; Part 4 – Chemistry of the universe and earth, and Part 5 - Some negative effects of chemicals. The appendix gives a brief summary of what chemistry is all about, including a short chapter of chemical principles. No quantitative calculations are included in this book so that it is appealing for everyone – not just chemists.

The Limits of Organic Life in Planetary Systems Nov 01 2020 *The search for life in the solar system and beyond has to date been governed by a model based on what we know about life on Earth (terran life). Most of NASA's mission planning is focused on locations where liquid water is possible and emphasizes searches for structures that resemble cells in terran organisms. It is possible, however, that life exists that is based on chemical reactions that do not involve carbon compounds, that occurs in solvents other than water, or that involves oxidation-reduction reactions without oxygen gas. To assist NASA incorporate this possibility in its efforts to search for life, the NRC was asked to carry out a study to evaluate whether nonstandard biochemistry might support life in solar system and conceivable extrasolar environments, and to define areas to guide research in this area. This book presents an exploration of a limited set of hypothetical chemistries of life, a review of current knowledge concerning key questions or hypotheses about nonterran life, and suggestions for future research.*

Transformer: The Deep Chemistry of Life and Death Jun 08 2021 *From the renowned biochemist and author of *The Vital Question*, an illuminating inquiry into the Krebs cycle and the origins of life. "Nick Lane's exploration of the building blocks that underlie life's big fundamental questions—the origin of life itself, aging, and disease—have shaped my thinking since I first came across his work. He is one of my favorite science writers."—Bill Gates* *What brings the Earth to life, and our own lives to an end? For decades, biology has been dominated by the study of genetic information. Information is important, but it is only part of what makes us alive. Our inheritance also*

includes our living metabolic network, a flame passed from generation to generation, right back to the origin of life. In Transformer, biochemist Nick Lane reveals a scientific renaissance that is hiding in plain sight —how the same simple chemistry gives rise to life and causes our demise. Lane is among the vanguard of researchers asking why the Krebs cycle, the “perfect circle” at the heart of metabolism, remains so elusive more than eighty years after its discovery. Transformer is Lane’s voyage, as a biochemist, to find the inner meaning of the Krebs cycle—and its reverse—why it is still spinning at the heart of life and death today. Lane reveals the beautiful, violent world within our cells, where hydrogen atoms are stripped from the carbon skeletons of food and fed to the ravenous beast of oxygen. Yet this same cycle, spinning in reverse, also created the chemical building blocks that enabled the emergence of life on our planet. Now it does both. How can the same pathway create and destroy? What might our study of the Krebs cycle teach us about the mysteries of aging and the hardest problem of all, consciousness? Transformer unites the story of our planet with the story of our cells—what makes us the way we are, and how it connects us to the origin of life. Enlivened by Lane’s talent for distilling and humanizing complex research, Transformer offers an essential read for anyone fascinated by biology’s great mysteries. Life is at root a chemical phenomenon: this is its deep logic.

Chemistry of Life Jul 21 2022

Chemistry in Modern Life Jul 09 2021

CHEMISTRY IN DAILY LIFE Apr 25 2020 This book highlights the importance of chemistry in human well-being by introducing the readers to the basic usefulness of chemistry in everyday life. Chemistry has helped in creating valuable products that have transformed the lifestyle of people. Since we spend lots of money in buying our daily requirements, there is a need for us to understand the benefits and hazards of using consumer products which contain chemicals. In this context, this book will help readers to make reasoned choices and intelligent decisions in buying consumer products which contain chemicals. This text is divided into seventeen chapters devoted to the basic necessities of life like food, shelter, clothing, healthcare, and energy and consumer products. Topics on chemistry in environment, crime, warfare, arts, conservation, communications and transportation are also highlighted in

individual chapters. All these topics are discussed with regard to the needs of modern society. In this third edition, the various chapters have been updated with current information keeping the language simple and friendly. Critical thinking exercises and questions have been included. The style of questions included in the book is to meet the requirement of various competitive examinations such as Indian Civil Services and entrance examinations in medicine and engineering.

The Chemistry of human life, the biochemic statement of the cause of disease and the physiological and chemical operation of the inorganic salts of the human organism and their chemical formulas Apr 06 2021

Chemical Evolution and the Origin of Life Sep 30 2020 How did life begin on the early Earth? We know that life today is driven by the universal laws of chemistry and physics. By applying these laws over the past 450 years, enormous progress has been made in understanding the molecular mechanisms that are the foundations of the living state. For instance, just a decade ago, the first human genome was published, all three billion base pairs. Using X-ray diffraction data from crystals, we can see how an enzyme molecule or a photosynthetic reaction center steps through its catalytic function. We can even visualize a ribosome, central to all life, translate genetic information into a protein. And we are just beginning to understand how molecular interactions regulate thousands of simultaneous reactions that continuously occur even in the simplest forms of life. New words have appeared that give a sense of this wealth of knowledge: The genome, the proteome, the metabolome, the interactome. But we can't be too smug. We must avoid the mistake of the physicist who, as the twentieth century began, stated confidently that we knew all there was to know about physics, that science just needed to clean up a few dusty corners. Then came relativity, quantum theory, the Big Bang, and now dark matter, dark energy and string theory. Similarly in the life sciences, the more we learn, the better we understand how little we really know. There remains a vast landscape to explore, with great questions remaining.

The Chemistry of Life Nov 25 2022

The Chemistry of Life Aug 10 2021 The Chemistry of Life CD-ROM is intended to teach the essentials to students encountering chemistry for the first

time, as well as those needing a thorough review before continuing with their science or allied health coursework. Using a highly interactive format, *The Chemistry of Life CD-ROM* explains and illustrates crucial concepts and principles such as atomic structure, properties of water, pH, buffers, enzyme function, and the structure and function of macromolecules. Learning is reinforced by presenting students with animations, encouraging interaction, then testing their grasp of the material with interactive quizzes.

The Chemistry of Life's Origins Aug 22 2022 This volume contains the lectures presented at the second course of the International School of Space Chemistry held in Erice (Sicily) from October 20 - 30 1991 at the "E. Majorana Centre for Scientific Culture". The course was attended by 58 participants from 13 countries. *The Chemistry of Life's Origins* is well recognized as one of the most critical subjects of modern chemistry. Much progress has been made since the amazingly perceptive contributions by Oparin some 70 years ago when he first outlined a possible series of steps starting from simple molecules to basic building blocks and ultimate assembly into simple organisms capable of replicating, catalysis and evolution to higher organisms. The pioneering experiments of Stanley Miller demonstrated already forty years ago how easy it could have been to form the amino acids which are critical to living organisms. However we have since learned and are still learning a great deal more about the primitive conditions on earth which has led us to a rethinking of where and how the condition for prebiotic chemical processes occurred. We have also learned a great deal more about the molecular basis for life. For instance, the existence of DNA was just discovered forty years ago.

Chemistry for the Life Sciences Mar 17 2022 Presents short topics tied to numerical or conceptual ideas, reinforced with worked examples and questions Retaining the user-friendly style of the first edition, this text is designed to eliminate the knowledge gap for those life sciences students who have not studied chemistry at an advanced level. It contains new chapters on - Concepts of Biology Aug 30 2020 *Concepts of Biology* is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the

necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

*The Chemistry of Evolution Nov 13 2021 Conventionally, evolution has always been described in terms of species. The Chemistry of Evolution takes a novel, not to say revolutionary, approach and examines the evolution of chemicals and the use and degradation of energy, coupled to the environment, as the drive behind it. The authors address the major changes of life from bacteria to man in a systematic and unavoidable sequence, reclassifying organisms as chemotypes. Written by the authors of the bestseller The Biological Chemistry of the Elements - The Inorganic Chemistry of Life (Oxford University Press, 1991), the clarity and precision of The Chemistry of Evolution plainly demonstrate that life is totally interactive with the environment. This exciting theory makes this work an essential addition to the academic and public library. * Provides a novel analysis of evolution in chemical terms * Stresses Systems Biology * Examines the connection between life and the environment, starting with the 'big bang' theory * Reorientates the chemistry of life by emphasising the need to analyse the functions of 20 chemical elements in all organisms*

The Chemistry of Life Jun 20 2022

Ross & Wilson Anatomy and Physiology in Health and Illness E-Book Jan 03

2021 The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of 'critical thinking' exercises as well as new animations, an audio-glossary, the unique Body Spectrum© online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn't English. Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear, no nonsense writing style helps make learning easy Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum© online colouring and self-test software, and helpful weblinks Includes basic pathology and pathophysiology of important diseases and disorders Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text, plus a glossary and an appendix of normal biological values. Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English All new illustration programme brings the book right up-to-date for today's student Helpful 'Spot Check' questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and/or life threatening diseases and disorders Review and Revise end-of-chapter exercises assist with reader understanding and recall Over 150 animations – many of them newly created – help clarify underlying scientific and physiological principles and make learning fun

Nucleic Acids in Chemistry and Biology Nov 20 2019 The structure, function and reactions of nucleic acids are central to molecular biology and are

crucial for the understanding of complex biological processes involved. Revised and updated Nucleic Acids in Chemistry and Biology 3rd Edition discusses in detail, both the chemistry and biology of nucleic acids and brings RNA into parity with DNA. Written by leading experts, with extensive teaching experience, this new edition provides some updated and expanded coverage of nucleic acid chemistry, reactions and interactions with proteins and drugs. A brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of DNA and RNA. Key chapters are devoted to the chemical synthesis of nucleosides and nucleotides, oligonucleotides and their analogues and to analytical techniques applied to nucleic acids. The text is supported by an extensive list of references, making it a definitive reference source. This authoritative book presents topics in an integrated manner and readable style. It is ideal for graduate and undergraduates students of chemistry and biochemistry, as well as new researchers to the field.

Chemistry at Extreme Conditions Oct 20 2019 *Chemistry at Extreme Conditions covers those chemical processes that occur in the pressure regime of 0.5–200 GPa and temperature range of 500–5000 K and includes such varied phenomena as comet collisions, synthesis of super-hard materials, detonation and combustion of energetic materials, and organic conversions in the interior of planets. The book provides an insight into this active and exciting field of research. Written by top researchers in the field, the book covers state of the art experimental advances in high-pressure technology, from shock physics to laser-heating techniques to study the nature of the chemical bond in transient processes. The chapters have been conventionally organised into four broad themes of applications: biological and bioinorganic systems; Experimental works on the transformations in small molecular systems; Theoretical methods and computational modeling of shock-compressed materials; and experimental and computational approaches in energetic materials research. * Extremely practical book containing up-to-date research in high-pressure science * Includes chapters on recent advances in computer modelling * Review articles can be used as reference guide*

What is Life? Sep 18 2019 Seventy years ago, Erwin Schrödinger posed a

profound question: 'What is life, and how did it emerge from non-life?' Scientists have puzzled over it ever since. Addy Pross uses insights from the new field of systems chemistry to show how chemistry can become biology, and that Darwinian evolution is the expression of a deeper physical principle. *Transformer* May 27 2020 What brings the Earth to life, and our own lives to an end? For decades, biology has been dominated by the study of genetic information. Information is important, but it is only part of what makes us alive. Our inheritance also includes our living metabolic network, a flame passed from generation to generation, right back to the origin of life. In *Transformer*, biochemist Nick Lane reveals a scientific renaissance that is hiding in plain sight —how the same simple chemistry gives rise to life and causes our demise. Lane is among the vanguard of researchers asking why the Krebs cycle, the “perfect circle” at the heart of metabolism, remains so elusive more than eighty years after its discovery. *Transformer* is Lane’s voyage, as a biochemist, to find the inner meaning of the Krebs cycle—and its reverse—why it is still spinning at the heart of life and death today. Lane reveals the beautiful, violent world within our cells, where hydrogen atoms are stripped from the carbon skeletons of food and fed to the ravenous beast of oxygen. Yet this same cycle, spinning in reverse, also created the chemical building blocks that enabled the emergence of life on our planet. Now it does both. How can the same pathway create and destroy? What might our study of the Krebs cycle teach us about the mysteries of aging and the hardest problem of all, consciousness? *Transformer* unites the story of our planet with the story of our cells—what makes us the way we are, and how it connects us to the origin of life. Enlivened by Lane’s talent for distilling and humanizing complex research, *Transformer* offers an essential read for anyone fascinated by biology’s great mysteries. Life is at root a chemical phenomenon: this is its deep logic.

The Chemistry of Some Life Processes Dec 02 2020

The Origin and Early Evolution of Life: Prebiotic Chemistry of Biomolecules Jan 15 2022 Studying the origin of life is one of man’s greatest achievements over the last sixty years. The fields of interest encompassed by this quest are multiple and interdisciplinary: chemistry, physics, biology, biochemistry, mathematics, geology but also statistics, atmospheric science, meteorology,

oceanography, and astrophysics. Recent scientific discoveries, such as water on Mars and the existence of super-Earths with atmospheres similar to primordial Earth, have pushed researchers to simulate prebiotic conditions in explaining the abiotic formation of molecules essential to life. This collection of articles offers an overview of recent discoveries in the field of prebiotic chemistry of biomolecules, their formation and selection, and the evolution of complex chemical systems.

Armchair Chemistry Feb 22 2020 Part of the Armchair series, Armchair Chemistry is a quick refresher course in how we survey of the science. It explains how we evolved from believing in alchemy to discovering modern chemical equations and goes into detail about the lives of the scientists that uncovered them. Fascinating and interactive, this is ideal for the student brushing up on a subject or for as a clear and accessible companion for beginner's and experts alike. It contains explanations of different chemical concepts, as well as profiles of key scientists and and their discoveries. It contains clear and concise explanations of different chemical concepts, as well as profiles of key scientists and their discoveries. A unique feature of the book is its simple, step-by-step exercises. Some of these have everyday applications, others are theoretical puzzles, but all are designed to challenge you and test your newly acquired knowledge. The perfect companion for beginners and experts alike, Armchair Chemistry does not assume prior knowledge of the subject. It conveys the basic elements of chemistry in a way that is clear and accessible, no matter your level of ability.

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