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A tutorial that is intended to teach the essential concepts of chemistry to students encountering the subject for the first time, and those needing a review before continuing with their allied health coursework. This CD-ROM explains important concepts and principles such as atomic structure, properties of water, gases, pH, buffers, and more. This assembly of lectures should appeal to anyone with an interest in the history of science and the nature of living things. Seven of the eight lectures are by eminent biochemists and describe the development of their own subject 'from the inside; the eighth is a more general one. 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* Reorients the chemistry of life by emphasising the need to analyse the functions of 20 chemical elements in all organisms Life is produced by the interplay of water and biomolecules. This book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules, and addresses topics including "Protein Dynamics and Functions", "Protein and DNA Folding", and "Protein Amyloidosis". All sections have been written by internationally recognized front-line researchers. The idea for this book was born at the 5th International Symposium "Water and Biomolecules", held in Nara city, Japan, in 2008. 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. 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. Linus Pauling was the most important chemist, and arguably the most important American scientist, of the 20th century. From his description of the chemical bond to his discovery of the cause of sickle-cell anemia and his groundbreaking work with vitamin C, his work stretched the boundaries of chemistry, physics, biology, immunology, and more. Acclaimed science writer Tom Hager brings Pauling's wide range of scientific accomplishments vividly to life while also shedding light on Pauling's activities outside the scientific realm. He shows how Pauling used his popularity to advance political causes, particularly his opposition to the spread of nuclear weapons during the 1950s. Despite the troubles his political activism caused him, he remained unmoved in his dedication to making the world a safer place. His perseverance was rewarded with a Nobel Peace Prize in 1963, which along with his 1954 Nobel Prize in Chemistry, made him the only person in history to win two unshared Nobels. Oxford Portraits in Science is an on-going series of scientific biographies for young adults. Written by top scholars and writers, each biography examines the personality of its subject as well as the thought process leading to his or her discoveries. These illustrated biographies combine accessible technical information with compelling personal stories to portray the scientists whose work has shaped our understanding of the natural world. 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. 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. 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. 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 of organic compounds, - and the introduction to the chemistry of the natural organic products followed by basic principles of the reactions in living cells. PROFESSOR ROSE'S WELL-KNOWN WORK IS AN INDISPENSABLE COMPANION FOR ANYONE INTERESTED IN THIS FIELD. "This book presents an introduction to the chemistry of life. It contains those facts and generalizations of organic chemistry that are both a fascinating object for study and also the basis for biochemistry. Without a firm foundation in organic chemistry (which itself is based on general chemistry), biochemistry becomes a meaningless memorization ... As a textbook, we believe this volume will be particularly useful for college courses for those who plan to teach biology or who plan to enter the health sciences"--Preface 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. This text describes the functional role of the twenty inorganic elements essential to life in living organisms. Why does chocolate taste so good? Why do we seek 'the one'? How do traits such as intelligence, creativity and violence arise and what purpose do they serve? This book links these characteristics to the origins of life, showing that the conditions necessary to bring life into existence echo through our modern day behaviour. The chemistry of the body is not only fascinating but also highly relevant to everyone, since we are all concerned with maximising our health and enjoyment of life. Currently, there are not many popular science books concerned with biochemistry. One reason for this might be the particularly complex nature of the science involved. This book starts with the fundamentals and then works towards a deeper understanding of the chemistry of human nature. Essential reading for anyone with an interest in this science and written at a level accessible to experts and non-experts alike. 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. Discusses proteins, enzymes, vitamins, and hormones and explains what they do and how they work within the body to maintain life. Drawing on Lavoisier's daily laboratory records, unpublished notes, and successive drafts of articles, Holmes explores the interaction between this creative scientist's theories and practice, the experimental problems he encountered and his response to them, the apparently intuitive understanding that guided his choice of experiments, and the gradual refinement of his hypotheses. This thorough and comprehensive exposition of Lavoisier's scientific style forms the basis for general reflections on the nature of creative scientific imagination that will interest historians of science and biology, philosophers of science, cognitive psychologists, and all who are intrigued by the drama of pioneering scientific discovery. 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. The authors of this study on bio-inorganic chemistry seek to examine the importance of inorganic elements. They survey chemical and physical factors controlling the elements of life, discuss the functions of inorganic elements and examine the co-operative interaction in living systems. 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.

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