



CHEMISTRY

Chemistry of the Elements

SECOND EDITION

N N Greenwood • A Earnshaw

School of Chemistry, University of Leeds, U. K.

When this innovative textbook first appeared in 1964 it rapidly became a great success throughout the world and has already been translated into several European and Asian languages. Now the authors have completely revised and updated the text, including more than 2650 new literature references to work published since the first edition. No page has been left unaltered but the novel features which proved so attractive have been retained. The book presents a balanced, coherent and comprehensive account of the chemistry of the elements for both undergraduate and postgraduate students. This crucial central area of chemistry is full of ingenious experiments, intriguing compounds and exciting new discoveries. The authors specifically avoid the term 'inorganic chemistry' since this evokes an outmoded view of chemistry which is no longer appropriate in the final decade of the 20th century.

Accordingly, the book covers not only the 'inorganic' chemistry of the elements, but also analytical, theoretical, industrial, organometallic, bio-inorganic and other cognate areas of chemistry. The authors have broken with recent tradition in the teaching of their subject and adopted a new and highly successful approach based on descriptive chemistry. The chemistry of the elements is still discussed within the context of an underlying theoretical framework, giving cohesion and structure to the text, but at all times the chemical facts are emphasized. Students are invited to enter the exciting world of chemical phenomena with a sound knowledge and understanding of the subject, to approach experimentation with an open mind, and to assess observations reliably. This is a book that students will not only value during their formal education, but will keep and refer to throughout their careers as chemists.

- COMPLETELY REVISED AND UPDATED
- UNIQUE APPROACH TO THE SUBJECT
- MORE COMPREHENSIVE THAN COMPETING TITLES

CONTENTS: Origin of the elements, isotopes and atomic weights; Chemical periodicity and the periodic table; Hydrogen, Lithium, sodium, potassium, rubidium, caesium and francium; Beryllium, magnesium, calcium, strontium, barium and radium; Boron, Aluminium, gallium, indium and thallium; Carbon, Silicon, Germanium, tin and lead; Nitrogen, Phosphorus, Arsenic, antimony and bismuth; Oxygen, Sulphur, Selenium, tellurium and polonium; The halogens: Fluorine, chlorine, bromine, iodine and astatine; The noble gases: helium, neon, argon, krypton, xenon, and radon; Coordination and organometallic compounds; Scandium, yttrium, lanthanum and actinium; Titanium, zirconium and hafnium; Vanadium, niobium and tantalum; Chromium, molybdenum and tungsten; Manganese, technetium and rhenium; Iron, ruthenium and osmium; Cobalt, rhodium and iridium; Nickel, palladium, and platinum; Copper, silver and gold; Zinc, cadmium and mercury; The lanthanide elements; The actinide and transactinide elements (Z=90-112); Appendices; Index.

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Man The Chemical Elements 2nd Edition

**L. P. Gough, Robert Carl
Pearson, Hansford T. Shacklette, Arthur
A. Case**

Man The Chemical Elements 2nd Edition:

The Periodic Table Eric R. Scerri, 2020 The Periodic Table Its Story and Its Significance traces the evolution and development of the periodic table from Mendeleev's 1869 first published table and onto the modern understanding provided by modern physics

A Tale of Seven Elements Eric R. Scerri, 2025 In 1913 English physicist Henry Moseley transformed our understanding of the elements by organizing them by atomic number from hydrogen to uranium. However, it soon became obvious that researchers had yet to discover seven completely unknown elements. In this updated and extended edition of his acclaimed book, Eric Scerri presents the intriguing stories of these elements: protactinium, hafnium, rhenium, technetium, francium, astatine, and promethium. It follows their discoveries through the two world wars, starting with protactinium in 1917 and ending with promethium in 1945. Scerri details the research leading to each discovery, the pivotal experiments, the chemists involved, the properties of each element, and their applications. For example, hafnium alloys named after Copenhagen, hafnia, have some of the highest boiling points and are used in rocket thrusters like those on the Apollo Lunar Modules. Scerri then examines the integration of twenty-five new elements into the periodic table over the past fifty years and concludes with a new chapter on rare Earth elements and the histories of their discoveries.

The Second Edition of A Tale of Seven Elements vividly portrays the journey of chemical research from missteps and disputes to the thrill of discovery, illuminating the researchers behind the elements as much as their breakthroughs. Provided by publisher

The Lost Elements Marco Fontani, Mariagrazia Costa, Mary Virginia Orna, 2014-10-01 The Periodic Table of Elements hasn't always looked like it does now: a well-organized chart arranged by atomic number. In the mid-nineteenth century, chemists were of the belief that the elements should be sorted by atomic weight. However, the weights of many elements were calculated incorrectly, and over time it became clear that not only did the elements need rearranging, but that the periodic table contained many gaps and omissions: there were elements yet to be discovered, and the allure of finding one had scientists rushing to fill in the blanks. Supposed discoveries flooded laboratories, and the debate over what did and did not belong on the periodic table reached a fever pitch. With the discovery of radioactivity, the discourse only intensified. Throughout its formation, the Periodic Table of Elements has seen false entries, good faith errors, retractions, and dead ends. In fact, there have been more falsely proclaimed elemental discoveries throughout history than there are elements on the table as we know it today.

The Lost Elements: The Periodic Table's Shadow Side collects the most notable of these instances, stretching from the nineteenth century to the present. The book tells the story of how scientists have come to understand elements by discussing the failed theories and false discoveries that shaped the path of scientific progress. We learn of early chemists' stubborn refusal to disregard alchemy as a legitimate practice and of one German's supposed discovery of an elemental metal that breathed. As elements began to be created artificially in the twentieth century, we watch the discovery climate shift to favor the physicists rather than the chemists. Along the way, Fontani, Costa, and Orna introduce us to the key figures in the development of today's periodic table.

including Lavoisier and Mendeleev Featuring a preface from Nobel Laureate Roald Hoffmann *The Lost Elements* is an expansive history of the wrong side of chemical discovery and reveals how these errors and gaffes have helped shape the table as much as any other form of scientific progress

The Men of Manhattan Jeffrey Strickland, 2011-05-16 *The Men of Manhattan* is a short history of the origins and development of the American atomic bomb program during World War II focusing on the men and woman who made it possible Beginning with the scientific developments of the pre war years the book details the role of scientific exploration in conducting a secret nationwide enterprise that took science from the laboratory and into combat with an entirely new type of weapon Throughout the book short biographies of the men and a women Lise Meitner Leona Woods Marshall Libby and Chien Shiung Wu are provided where most pertinent Although nuclear weapons still pose a threat to peace throughout the world splitting the atom was a watermark point in nuclear science and quantum physics Harnessed responsibly the enormous power of an atomic chain reaction can serve humanity for good e g atomic energy Nuclear medicine and x ray technology are examples of the benefits brought about by these pioneers the Men of Manhattan

Men and Women of the Time ,1891 *A History of Geochemistry and Cosmochemistry, from Prehistory to the End of the Classical Period* Robert W. Boyle, 2024-05-01 Since Mendeleev outlined the modern periodic table in 1869 many new uses have been found for the 92 naturally occurring elements This book travels back in time to describe the utilization of materials familiar gold copper iron and arcane arsenic boron red ochre and their practical history mining metallurgy and crafts with evidence from archaeology and geology Together with the technological developments author Robert Boyle portrays the advances in our understanding of materials science which led to modern geological and environmental sciences It is a source book valuable to students of history and archaeology mining and metallurgy as well as to geologists mineralogists and geochemists everywhere

Athenaeum ,1845 Pollutant Transfer and Transport in The Sea Gunnar Kullenberg, 2018-02-01 This book covers those subject areas considered essential for the transfer and transport of pollutants in the marine environment This publication will stimulate discussions and interdisciplinary research relevant to pollution problems as well as serve as an educational reference book

William Joseph Morse - History of His Work with Soybeans and Soyfoods (1884-2017) William Shurtleff, Akiko Aoyagi, 2017-07-21 Revised 2nd edition with roughly twice as many pages and twice as many photos as the 1st edition of 2011 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 235 photographs and illustrations Free of charge in digital PDF format on Google Books

Bristol Medico-chirurgical Journal ,1919 **Females and Their Diseases** Charles Delucena Meigs, 1848 Christian Theism and a Spiritual Monism, Second Edition W. L. Walker, 2021-06-03 The chief object of the pages that follow is to show how the great Christian presuppositions God Freedom Immortality in their specifically Christian character including the reality of the Divine Incarnation in Christ and of Grace can be established on the basis of such a Monistic conception of the world as the facts of Science demand and as Philosophy is

feeling after The subject however is not approached from the standpoint of Philosophy but rather objectively from that of the teaching of Science concerning ourselves in the Universe The book is written for the plain man and seeks to follow an inductive method and to reach something that shall be not vague merely but distinctively Christian From the Preface **The**

Development of Modern Chemistry Aaron J. Ihde, 1984-01-01 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

Modern Nuclear Chemistry Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2017-03-21 Written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering Provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics Adds discussion of math tools and simulations to demonstrate various phenomena new chapters on Nuclear Medicine Nuclear Forensics and Particle Physics and updates to all other chapters Includes additional in chapter sample problems with solutions to help students Reviews of 1st edition an authoritative comprehensive but succinct state of the art textbook The Chemical Educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes CHOICE

Element Concentrations Toxic to Plants, Animals, and Man L. P. Gough, Robert Carl Pearson, Hansford T. Shacklette, Arthur A. Case, 1979 Investigators have long recognized the importance of certain elements commonly called minerals in the diet of humans and animals and in the soil that supports plants in that these elements are essential for the life or optimum health of the organisms Deficiencies of 20 to 24 elements in animals and man and of 13 to 18 elements in plants have been recognized At the same time an understanding of the responses of these organisms to the insult of toxic concentrations of these and other elements also has been of interest More recently concern has arisen regarding the effects of an organism's exposure to the more subtle chronic and subchronic concentrations of certain elements that industrial and other human activities are releasing into the environment Principles of Ecotoxicology, Third Edition C.H. Walker, R.M. Sibly, S.P. Hopkin, D.B. Peakall, 2005-12-22 Presenting a multidisciplinary perspective in a concise format Principles of Ecotoxicology Third Edition discusses the fundamental chemical and ecological nature of pollution processes while identifying the major classes of pollutants and their environmental fate The first edition was originally created to fill the need for a textbook that covered the basic principles of a developing and wide ranging field and the second edition expanded on that theme Keeping the focus on principles over practice that has made each incarnation of this textbook so popular the third edition brings the text up to date and strengthens coverage in areas that have come to the forefront of the field The third edition features new material on pollutants that are receiving closer scrutiny naturally occurring poisons the history of

chemical warfare population risk assessment community structure neonicotinoids endocrine disruption and neurotoxicity A new section on extrapolating from molecular interaction to the consequent population changes highlights the molecules to ecosystem approach and provides the groundwork for discussions on the employment of biomarker strategies in field studies A major theme of the new material is how the concepts discussed can contribute to improved methods of environmental risk assessment With updates to every chapter this text provides essential information for students in easy to use and understandable format

CRC Handbook of Chemistry and Physics William M. Haynes, 2016-06-22 Proudly serving the scientific community for over a century this 97th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions It is now also available as an eBook This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach

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Trace Elements in Soils and Plants Alina Kabata-Pendias, 2000-11-08 Contemporary legislation respecting environmental protection and public health at both national and international levels are based on data that characterize chemical properties of environmental phenomena especially those that reside in our food chain Thus environmental and food quality are now matters of major public concern and therefore a sy

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