

The Periodic Table

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the periodic table is one of the most potent icons in science it lies at the core of chemistry and embodies the most fundamental principles of the field the one definitive text on the development of the periodic table by van spronsen 1969 has been out of print for a considerable time the present book provides a successor to van spronsen but goes further in giving an evaluation of the extent to which modern physics has or has not explained the periodic system the book is written in a lively style to appeal to experts and interested lay persons alike the periodic table begins with an overview of the importance of the periodic table and of the elements and it examines the manner in which the term element has been interpreted by chemists and philosophers the book then turns to a systematic account of the early developments that led to the classification of the elements including the work of lavoisier boyle and dalton and cannizzaro the precursors to the periodic system like döbereiner and gmelin are discussed in chapter 3 the discovery of the periodic system by six independent scientists is examined in detail two chapters are devoted to the discoveries of mendeleev the leading discoverer including his predictions of new elements and his accommodation of already existing elements chapters 6 and 7 consider the impact of physics including the discoveries of radioactivity and isotopy and

successive theories of the electron including bohr's quantum theoretical approach chapter 8 discusses the response to the new physical theories by chemists such as lewis and bury who were able to draw on detailed chemical knowledge to correct some of the early electronic configurations published by bohr and others chapter 9 provides a critical analysis of the extent to which modern quantum mechanics is or is not able to explain the periodic system from first principles finally chapter 10 considers the way that the elements evolved following the big bang and in the interior of stars the book closes with an examination of further chemical aspects including lesser known trends within the periodic system such as the knight's move relationship and secondary periodicity as well as attempts to explain such trends

the periodic table is the way scientists have organized the known elements but up and coming scientists can learn much from the periodic table as well your readers will learn how to read the periodic table including what an element's atomic number means and what the rows and columns signify they'll gather facts about common and interesting elements and even discover how they can predict how elements might chemically react from their position in the table fact boxes and images add additional information to the accessible text

leads the reader on a delightful and absorbing journey through the ages on the trail of the elements of the periodic table as we know them today he introduces the young reader to people like von helmoltz boyle stahl priestly cavendish lavoisier and many others all incredibly diverse in personality and approach who have laid the groundwork for a search that is still unfolding to this day the first part of wiker's witty and solidly instructive presentation is most suitable to middle school age while the later chapters are designed for ages 12-13 and up with a final chapter somewhat more advanced illustrated by jeanne bendick and ted schluenderfritz

every element has character be it volatile aloof gregarious or enigmatic they also have incredible stories of how they came to be how they were discovered and how their qualities have been harnessed to make everything we have in the world dr ben still takes you through all the groups revealing the fascinating circumstances of their discoveries and explaining their characteristics and behaviour often delving inside the atom to explain their structure in a way easily accessible to everyone insightful illustrations help you to understand even the most complex looking aspects of quantum physics bringing the periodic table to life incredibly enlightening the secret life of the periodic table will entertain and inform in equal measure take a trip through the ages of exploration enjoying the story of how mendeleev's table came to be it is the story of one of the greatest pattern seeking accomplishments of humankind contents include atomic physics the quantum atom trends and patterns alkaline earth metals metalloids future elements

the periodic table is one of the most recognizable images in science and in our culture its 118 elements make up everything on our planet and in the entire universe but how many of us actually know how to interpret its distinctive design and what does its

unique arrangement tell us about the behaviour of each element in the world around us the periodic table looks at the fascinating story and surprising history of each of these elements from the little known uses of gold in medicine to that of arsenic as a wallpaper dye in the nineteenth century and the development of the hydrogen bomb packed with interesting facts and figures and helpful illustrations this accessible guide will help the armchair chemist navigate through the different groups of elements and discover the world afresh

style homepages introduce to budding chemists each of the chemical elements from the periodic table complete with witty and informative profiles written by the elements themselves

presents a modern and fresh exploration of the periodic table considering the deeper implications of the arrangements of the table to atomic physics and quantum mechanics

a sweeping history of both the discovery and classification of elements and the development of the modern periodic table included are discussions of the discovery of matter atoms atomic structure molecules compounds ions and isotopes as well as the first identifications of the 118 and counting elements and the various ways they have been classified and organized by prominent scientists up to the present day periodic table instruction in how to read the periodic table is accompanied by examinations of the various groups of elements their location on the table and their properties and practical uses this text strongly supports common core standards for the reading of scientific and technical texts and accounts and furnishes ample opportunities to summarize cite evidence and analyze connections between ideas individuals and events

authoritative science to engage even the most unscientific chemistry s most significant chart the periodic table and its 118 elements is laid bare in this lively accessible and compelling expose

which is the densest element which has the largest atoms and why are some elements radioactive from the little known uses of gold in medicine to the development of the hydrogen bomb this is a fresh new look at the periodic table combining cutting edge science with fascinating facts and stunning infographics this book looks at the extraordinary stories of discovery amazing properties and surprising uses of each elements whether solid liquid or gas naturally occurring synthesised or theoretical from hydrogen to oganesson this is a fact filled visual guide to each element each accompanied by technical data category atomic number weight boiling point as well as fun facts and stories about their discovery and surprising uses

this eye popping encyclopedia takes you on a tour of all the world s elements from argon to zinc each and every one of the 118 chemical elements are explored in dazzling detail with the periodic table celebrating its 150th anniversary in 2019 you ll be in your element as you discover the incredible variety of building blocks that make up our universe and learn the remarkable ways

we now use them more than 1 000 photographs showcase the natural forms of each element and the range of everyday and unusual objects where they can be seen this helps children understand exactly where the different elements have found their place in the world the true science behind the elements is explained in properties atomic structure and table position this essential book turns the tables on traditional reference and presents the periodic table as never before to appeal to school children today included is a giant glossy pull out poster perfect to aid classroom discussions or to dazzle on bedroom walls

an icon of science the periodic table defines the fundamental chemistry of everything in the universe in this compact yet comprehensive guide dan green outlines the history development and workings of the table shows how its design reflects and illuminates the organisation of all matter and even explains what it has to tell us about the chemistry of distant stars and of our own bodies contents include an individual entry for every known element detailing properties uses and key data and sections on the patterns and groups of the famous table as well as explanations of basic chemistry concepts such as elements and compounds atomic structure chemical bonds reactions and radioactivity amongst many others

science meets design in this comprehensive introduction to the chemical elements that make up our universe

a short guide to one of the most celebrated diagrams in the history of science a tool for understanding the basic building blocks of the universe

explore the current and future applications of common elements from the periodic table of elements with the elements of chemistry series each volume features the discovery history and present uses of one vital element from the periodic table of elements discover the effects of these basic building blocks have on major world industries including energy production health and wellness and fabrication high school readers will come to a deeper understanding of how important and life giving elements can be and their broad ranging impact on everyday life on earth all titles also feature useful teacher resources such as rubrics and extension activities to aid in lesson planning and inspire creative discussions every book in the series includes a map timeline slideshow quiz and detailed diagrams which allow for comprehensive study of each title subject

written in british english who invented the periodic table tells the fascinating story of the philosophers chemists and other scientists from ancient times to today who have contributed to the discovery of all the known elements in our universe

memorize the periodic table the fast and easy way to memorize chemical elements if you have a chemistry exam tomorrow thank goodness you re here this book will help you memorize the entire periodic table in the fastest and easiest way possible would you like to remember the name of every single chemical element and know their atomic numbers too if you ve ever watched someone memorize a deck of playing cards in minutes and dreamed about what you could do with a memory like that your dreams are

about to come true the secret to memorizing is visualization and association this book will tell you exactly what to visualize so you can memorize every element in the periodic table this is not a how to guide that teaches you a method we've done all the work for you this book takes the techniques used by memory experts like tony buzan harry lorayne or even techniques you may have read about in moonwalking with einstein and describes mental images and stories to help you memorize the periodic table memorize the periodic table takes advantage of the astonishing memory you already have it's amazing more people don't use this easy technique and still persist with repetition to memorize the periodic table they must have plenty of time to burn after reading this book you will be able to recite the names of all the chemical elements in order know the atomic numbers for each element be astonished at your own memory have a lot of leftover study time the authors describe precisely what mental pictures you should visualize to remember each chemical element and link it in your mind with the next element if you've always hated repetition and rote learning you are going to love this book this quick and easy read will have you memorizing the names of chemical elements straight away and you'll be filled with excitement as you realize how simple memorizing the periodic table can actually be buy this book now and recite the periodic table tomorrow

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