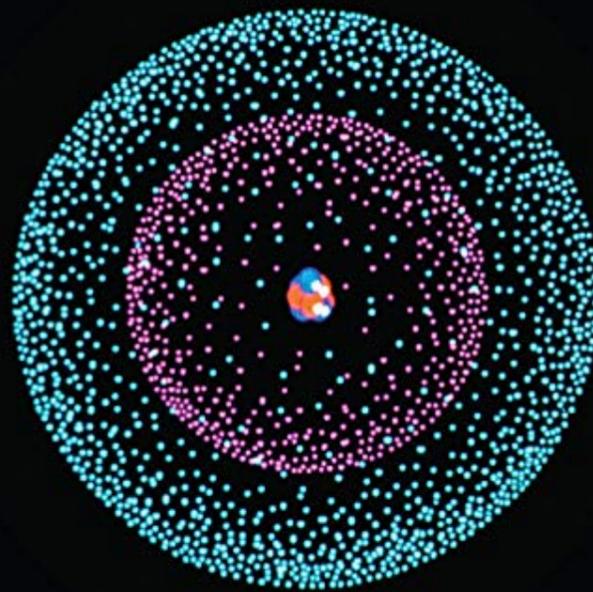


# THE ATOM A VISUAL TOUR



JACK CHALLONER

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**The Atom**-Jack Challoner 2018-10-12 An accessible and engaging guide to the atom, the smallest, most fundamental constituent of matter. Until now, popular science has relegated the atom to a supporting role in defining the different chemical elements of the periodic table. In this book, Jack Challoner places the atom at center stage. The Atom investigates the quest to identify the smallest, most fundamental constituents of matter--and how that quest helps us to understand what everything is made of and how it all works. Challoner covers a wide range of topics--including the development of scientific thinking about atoms and the basic structure of atoms; how atomic interactions account for the familiar properties of everyday materials; the power of the atomic nucleus; and what the mysterious quantum realm of subatomic particles can tell us about the very nature of reality. Illustrated in color throughout, The Atom offers clear answers to questions we have all pondered, as well as some we have never even dreamed of. It describes the amazing discoveries scientists have made about the fundamental building blocks of matter--from quarks to nuclear fission to the "God particle"--and explains them accessibly and concisely. The Atom is the engaging and straightforward introduction to the topic that we didn't get in school.

**The Atom**-Jack Challoner 2018-09-26 Until now, popular science has relegated the atom to a supporting role in defining the different chemical elements of the periodic table. This bold new title places its subject center stage, shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify. The book covers a huge range of topics, including the development of scientific thinking about the atom, the basic structure of the atom, how the interactions between atoms account for the familiar properties of everyday materials; the power and mystery of the atomic nucleus, and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality. Sparkling text banishes an outdated world of dull chemistry, as it brightly introduces the reader to what everything is made of and how it all works, on the most fundamental level.

**The Cell**-Jack Challoner 2015-10-16 The cell is the basic building block of life. In its 3.5 billion years on the planet, it has proven to be a powerhouse, spreading life first throughout the seas, then across land, developing the rich and complex diversity of life that populates the planet today. With The Cell: A Visual Tour of the Building Block of Life, Jack Challoner treats readers to a visually stunning tour of these remarkable molecular machines. Most of the living things we're familiar with--the plants in our gardens, the animals we eat--are composed of billions or trillions of cells. Most multicellular organisms consist of many different types of cells, each highly specialized to play a particular role--from building bones or producing the pigment in flower petals to fighting disease or sensing environmental cues. But the great majority of living things on our planet exist as single cell. These cellular singletons are every bit as successful and diverse as multicellular organisms, and our very existence relies on them. The book is an authoritative yet accessible account of what goes on inside every living cell--from building proteins and producing energy to making identical copies of themselves--and the importance of these chemical reactions both on the familiar everyday scale and on the global scale. Along the way, Challoner sheds light on many of the most intriguing questions guiding current scientific research: What special properties make stem cells so promising in the treatment of injury and disease? How and when did single-celled organisms first come together to form multicellular ones? And how might scientists soon be prepared to build on the basic principles of cell biology to build similar living cells from scratch.

**Atom Land**-Jon Butterworth 2019-04-02 Journey into an unseen world--and to the frontiers of human knowledge Welcome to Atom Land, a subatomic realm governed by the laws of particle physics. Here, electromagnetism is a highway system; the strong force, a railway; the weak force, an airline. With award-winning physicist Jon Butterworth as your guide, you'll set sail from Port Electron in search of strange new terrain--from the Isle of Quarks to the very edge of Antimatter. Journey into an unseen world--and to the frontiers of human knowledge.

**Atomic Spectra and Atomic Structure**-Gerhard Herzberg 1944-01-01 For beginners and specialists in other fields: the Nobel Laureate's introduction to atomic spectra and their relationship to atomic structures, stressing basics in a physical, rather than mathematical, treatment. 80 illustrations.

**World War Two**- 2009 Published to commemorate the 70th anniversary of World War II, this completely new account of one of the deadliest conflicts in history opens with the buildup of hostility leading up to the war and concludes with the war's impact on modern history. 1,200 photos.

**A Tour of the Subatomic Zoo**-Cindy Schwarz 2017-01-01 A Tour of the Subatomic Zoo: A guide to particle physics is a brief and ambitious expedition into the remarkably simple ingredients of all the wonders of nature. With hardly a mathematical formula, Professor Cindy Schwarz clearly explains the language and much of the substance of elementary particle physics for the 99% of students who do not aspire to a career in physics. Views of matter from the atom to the quark are discussed in a form that an interested person with no physics background can easily understand. College and university courses can be developed around this book and it can be used alone or in conjunction with other material. Even college physics majors would enjoy reading this book as an introduction to particle physics. High-school, and even middle-school, teachers could also use this book to introduce this material to their students. It will also be beneficial for high-school teachers who have not been formally exposed to high-energy physics, have forgotten what they once knew, or are no longer up to date with recent developments.

**Elements**-Theodore Gray 2012-04-03 The Elements has become an international sensation, with over one million copies in-print worldwide. The highly-anticipated paperback edition of The Elements is finally available. An eye-opening, original collection of gorgeous, never-before-seen photographic representations of the 118 elements in the periodic table. The elements are what we, and everything around us, are made of. But how many elements has anyone actually seen in pure, uncombined form? The Elements provides this rare opportunity. Based on seven years of research and photography, the pictures in this book make up the most complete, and visually arresting, representation available to the naked eye of every atom in the universe. Organized in order of appearance on the periodic table, each element is represented by a spread that includes a stunning, full-page, full-color photograph that most closely represents it in its purest form. For example, at -183°C, oxygen turns from a colorless gas to a beautiful pale blue liquid. Also included are fascinating facts, figures, and stories of the elements as well as data on the properties of each, including atomic weight, density, melting and boiling point, valence, electronegativity, and the year and location in which it was discovered. Several additional photographs show each element in slightly altered forms or as used in various practical ways. The element's position on the periodic table is

pinpointed on a mini rendering of the table and an illustrated scale of the element's boiling and/or melting points appears on each page along with a density scale that runs along the bottom. Packed with interesting information, this combination of solid science and stunning artistic photographs is the perfect gift book for every sentient creature in the universe. Includes a tear-out poster of Theodore Gray's iconic Photographic Periodic Table!

**Niels Bohr and the Quantum Atom**-Helge Kragh 2012-05-03 Niels Bohr and the Quantum Atom gives a comprehensive account of the birth, development, and decline of Bohr's atomic theory. It presents the theory in a broad context which includes not only its technical aspects, but also its reception, dissemination, and applications in both physics and chemistry.

**The Periodic Table Book**-DK 2017-03-30 The Periodic Table Book is the perfect visual guide to the chemical elements that make up our world. This eye-catching encyclopedia takes children on a visual tour of the 118 chemical elements of the periodic table, from argon to zinc. It explores the naturally occurring elements, as well as the man-made ones, and explains their properties and atomic structures. Using more than 1,000 full-colour photographs, The Periodic Table Book shows the many natural forms of each element, as well as a wide range of both everyday and unexpected objects in which it is found, making each element relevant for the child's world.

**Ever Smaller**-Antonio Ereditato 2020 Foreword to the Italian edition / by Pietro Greco -- Foreword / by Nigel Lockyer -- Atoms and beyond -- The indivisible and the divisible -- Everything is relative -- The certainty of chance -- The family grows -- Energized particles -- Three quarks for muster mark! -- May the force be with us! -- The world through the looking-glass -- The most beautiful theory in the world -- The color of elementary particles -- The November revolution -- Weak, but very influential -- The chameleon -- Seeing the invisible -- United you win -- Dream, the unknown, adventure -- Be curious.

**The Kid's Book of the Elements**-Theodore Gray 2020-10-20 A fun, fascinating, and amazingly photographic exploration of the periodic table, for curious kids who want to understand how atoms and elements make up everything in the universe. In this very special kids' edition of Theodore Gray's The Elements, budding scientists, ages 6 to 9, will learn all about every element in the periodic table from the first element, Hydrogen (1), to the very last element, Oganesson (118). Filled with great big colorful photographs and fun facts for every element, The Kid's Book of The Elements is the perfect introduction to the fascinating world of chemistry and visual/tactile-based STEM/STEAM learning. This edition also includes 120 sturdy tear-out cards of each element for kids to play with and arrange on their own.

**Atomic Love**-Jennie Fields 2020-08-18 "A novel of science, love, espionage, beautiful writing, and a heroine who carves a strong path in the world of men. As far as I'm concerned there is nothing left to want."--Ann Patchett, author of The Dutch House "A highly-charged love story that reveals the dangerous energy at the heart of every real connection...Riveting."--Delia Owens, author of Where the Crawdads Sing Love. Desire. Betrayal. Her choice could save a nation. Chicago, 1950. Rosalind Porter has always defied expectations--in her work as a physicist on the Manhattan Project and in her passionate love affair with colleague Thomas Weaver. Five years after the end of both, her guilt over the bomb and her heartbreak over Weaver are intertwined. She desperately misses her work in the lab, yet has almost resigned herself to a more conventional life. Then Weaver gets back in touch--and so does the FBI. Special Agent Charlie Szydlo wants Roz to spy on Weaver, whom the FBI suspects of passing nuclear secrets to Russia. Roz helped to develop these secrets and knows better than anyone the devastating power such knowledge holds. But can she spy on a man she still loves, despite her better instincts? At the same time, something about Charlie draws her in. He's a former prisoner of war haunted by his past, just as her past haunts her. As Rosalind's feelings for each man deepen, so too does the danger she finds herself in. She will have to choose: the man who taught her how to love . . . or the man her love might save?

**The Zoomable Universe**-Caleb Scharf 2017-10-17 An epic, full-color visual journey through all scales of the universe In The Zoomable Universe, the award-winning astrobiologist Caleb Scharf and the acclaimed artist Ron

Miller take us on an epic tour through all known scales of reality, from the largest possible magnitude to the smallest. Drawing on cutting-edge science, they begin at the limits of the observable universe, a scale spanning  $10^{27}$  meters—about 93 billion light-years. And they end in the subatomic realm, at  $10^{-35}$  meters, where the fabric of space-time itself confounds all known rules of physics. In between are galaxies, stars and planets, oceans and continents, plants and animals, microorganisms, atoms, and much, much more. Stops along the way—all enlivened by Scharf's sparkling prose and his original insights into the nature of our universe—include the brilliant core of the Milky Way, the surface of a rogue planet, the back of an elephant, and a sea of jostling quarks. The Zoomable Universe is packed with more than 100 original illustrations and infographics that will captivate readers of every age. It is a whimsical celebration of discovery, a testament to our astounding ability to see beyond our own vantage point and chart a course from the farthest reaches of the cosmos to its subatomic depths—in short, a must-have for the shelves of all explorers.

**Quantum Physics in Minutes**-Gemma Lavender 2017-06-06 Quantum physics is the most fundamental -- but also the most baffling -- branch of science. Allowing for dead-and-alive cats, teleportation, antimatter, and parallel universes, as well as underpinning all of our digital technology, it's as important as it is mind-bending. This clear and compact book demystifies the strange and beautiful quantum world, and hence the nature of reality itself. Contents include: Schrodinger's cat, inside the atom, the particle zoo, the Higgs boson, Heisenberg's uncertainty principle, God playing dice, relativity, the Big Bang, dark energy and matter, black holes, the fate of the Universe, the Theory of Everything, quantum gravity, string theory, the multiverse, instant communication, quantum computing and cryptography, superconductivity, quantum biology, quantum consciousness, and much more. Written as a series of mini essays with 200 simple diagrams to help understanding, there can be no easier guide to this notoriously confusing subject. At last it's possible for non-specialists to understand quantum theory and its central role in the birth of the universe and the very existence of life.

**Atomic Design**-Brad Frost 2016-12-05

**Chemistry**-Thomas R. Gilbert 2013-08-06 The authors, who have more than two decades of combined experience teaching an atoms-first course, have gone beyond reorganizing the topics. They emphasize the particulate nature of matter throughout the book in the text, art, and problems, while placing the chemistry in a biological, environmental, or geological context. The authors use a consistent problem-solving model and provide students with ample opportunities to practice.

**Trinity: A Graphic History of the First Atomic Bomb**-Jonathan Fetter-Vorm 2013-05-28 A graphic novel account of the race to construct the first atomic bomb and the decision to drop it, tracing the early research, the heated debates, and profiles of forefront Manhattan Project contributors.

**CO2 Rising**-Tyler Volk 2010-09-24 An introduction to the global carbon cycle and the human-caused disturbances to it that are at the heart of global warming and climate change. The most colossal environmental disturbance in human history is under way. Ever-rising levels of the potent greenhouse gas carbon dioxide (CO<sub>2</sub>) are altering the cycles of matter and life and interfering with the Earth's natural cooling process. Melting Arctic ice and mountain glaciers are just the first relatively mild symptoms of what will result from this disruption of the planetary energy balance. In CO<sub>2</sub> Rising, scientist Tyler Volk explains the process at the heart of global warming and climate change: the global carbon cycle. Vividly and concisely, Volk describes what happens when CO<sub>2</sub> is released by the combustion of fossil fuels (coal, oil, and natural gas), letting loose carbon atoms once trapped deep underground into the interwoven web of air, water, and soil. To demonstrate how the carbon cycle works, Volk traces the paths that carbon atoms take during their global circuits. Showing us the carbon cycle from a carbon atom's viewpoint, he follows one carbon atom into a leaf of barley and then into an alcohol molecule in a glass of beer, through the human bloodstream, and then back into the air. He also compares the fluxes of carbon brought into the biosphere naturally against those created by the combustion of fossil fuels and explains why the latter are responsible for rising temperatures. Knowledge about the global carbon cycle and the huge disturbances that human activity produces in it will equip us to consider the hard questions that Volk raises in the second half of CO<sub>2</sub> Rising:

projections of future levels of CO<sub>2</sub>; which energy systems and processes (solar, wind, nuclear, carbon sequestration?) will power civilization in the future; the relationships among the wealth of nations, energy use, and CO<sub>2</sub> emissions; and global equity in per capita emissions. Answering these questions will indeed be our greatest environmental challenge.

**Eating the Sun**-Ella Frances Sanders 2019 "An illustrated exploration of the principles, laws, and wonders that rule our universe, our solar system, our world, and our daily lives from the bestselling creator of *Lost in Translation*"--

**The ABC of Atoms**-Bertrand Russell 1923

**Elements**-Jack Challoner 2018-03 *The Elements: An Interactive Guide to the Building Blocks of Our Universe* is an illustrated reference book to the elements that make up everything in our universe. General information about the properties, behaviour and occurrence of the elements, their main compounds and their principal uses is given. It is authoritative and accessible, with a sense of wonder about the way the material world works, thanks to the protons, neutrons and electrons that make up the atoms of the elements.

**Supercade**-Van Burnham 2003 *Chronicles the history of video games and the legacy and language created by their popularity, discussing Atari, Space Invaders, Pac-Man, Frogger, Q\*Bert, Dragon's Lair, and Samurai Nipponichi.*

**Reactions**-Theodore Gray 2017-11-07 The third book in Theodore Gray's bestselling *Elements Trilogy*, *Reactions* continues the journey through the world of chemistry that began with his two previous bestselling books *The Elements* and *Molecules*. With *The Elements*, Gray gave us a never-before-seen, mesmerizing photographic view of the 118 elements in the periodic table. In *Molecules*, he showed us how the elements combine to form the content that makes up our universe. With *Reactions* Gray once again puts his one-of-a-kind photography and storytelling ability to work demonstrating how molecules interact in ways that are essential to our very existence. The book begins with a brief recap of elements and molecules and then goes on to explain important concepts that characterize a chemical reaction, including Energy, Entropy, and Time. It is then organized by type of reaction including chapters such as "Fantastic Reactions and Where to Find Them," "On the Origin of Light and Color," "The Boring Chapter," in which we learn about reactions such as paint drying, grass growing, and water boiling, and "The Need for Speed," including topics such as weather, ignition, and fire.

**More Than Meets the Eye**-Georgina Kleege 2017-12 In *More Than Meets the Eye*, Georgina Kleege explores the ways that ideas about visual art and blindness are linked in many facets of the culture. While it may seem paradoxical to link blindness to visual art, western theories about art have always been haunted by the specter of blindness. The ideal art viewer is typically represented as possessing perfect vision, an encyclopedic knowledge of art, and a photographic memory of images, all which allow for an unmediated wordless communion with the work of art. This ideal viewer is defined in polar opposition to a blind person, presumed to be oblivious to the power of art, and without the cognitive capacity to draw on analogous experience. Kleege begins her study with four chapters about traditional representations of blindness, arguing that traditional theories of blindness fail to take into account the presence of other senses, or the ability of blind people to draw analogies from non-visual experience to develop concepts about visual phenomena. She then shifts focus from the tactile to the verbal, beginning with Denis Diderot's remarkable range of techniques to describe art works for readers who were not present to view them for themselves, and how his criticism offers a powerful warrant for bringing the specter of blindness out of the shadows and into the foreground of visual experience. Through both personal experience and scholarly treatment, Kleege dismantles the traditional denigration of blindness, contesting the notion that viewing art involves sight alone and challenging traditional understandings of blindness through close reading of scientific case studies and literary depictions. *More Than Meets the Eye* introduces blind and visually impaired artists whose work has shattered stereotypes and opened up new aesthetic possibilities for everyone.

**Atomic Habits**-James Clear 2018-10-18 THE PHENOMENAL INTERNATIONAL BESTSELLER - 1 MILLION COPIES SOLD Transform your life with tiny changes in behaviour, starting now. People think that when you want to change your life, you need to think big. But world-renowned habits expert James Clear has discovered another way. He knows that real change comes from the compound effect of hundreds of small decisions: doing two push-ups a day, waking up five minutes early, or holding a single short phone call. He calls them atomic habits. In this ground-breaking book, Clear reveals exactly how these minuscule changes can grow into such life-altering outcomes. He uncovers a handful of simple life hacks (the forgotten art of Habit Stacking, the unexpected power of the Two Minute Rule, or the trick to entering the Goldilocks Zone), and delves into cutting-edge psychology and neuroscience to explain why they matter. Along the way, he tells inspiring stories of Olympic gold medalists, leading CEOs, and distinguished scientists who have used the science of tiny habits to stay productive, motivated, and happy. These small changes will have a revolutionary effect on your career, your relationships, and your life.

\_\_\_\_\_ A NEW YORK TIMES AND SUNDAY TIMES BESTSELLER 'A supremely practical and useful book.' Mark Manson, author of *The Subtle Art of Not Giving a F\*ck* 'James Clear has spent years honing the art and studying the science of habits. This engaging, hands-on book is the guide you need to break bad routines and make good ones.' Adam Grant, author of *Originals* 'Atomic Habits is a step-by-step manual for changing routines.' Books of the Month, Financial Times 'A special book that will change how you approach your day and live your life.' Ryan Holiday, author of *The Obstacle is the Way*

**Theodore Gray's My First Elements**-Theodore Gray 2019-04-23 Introduce Baby to the wonderful, colorful elements that make up his or her world! This board book for babies, ages 6 months to 3 years, features big, bold, and bright photography from Theodore Gray's bestselling adult book *The Elements*, paired with delightful, baby-friendly text. *My First Elements* includes 10 elements, one per spread. Each spread features a big photograph of the element on one page, such as an iron horseshoe or nugget of gold. The opposite page shows photographs of the places in baby's world where the element is found from balloons for helium to a swimming pool for chlorine to seaweed for iodine.

**Rum**-Richard Foss 2012-05-15 "Yo ho ho and a bottle of rum!" A favorite of pirates, the molasses-colored liquid brings to mind clear blue seas, weather-beaten sailors, and port cities filled with bar wenches. But enjoyment of rum spread far beyond the scallywags of the Caribbean—Charles Dickens savored it in punch, Thomas Jefferson mixed it into omelets, Queen Victoria sipped it in navy grog, and the Kamehameha Kings of Hawaii drank it straight up. In *Rum*, Richard Foss tells the colorful, secret history of a spirit that not only helped spark the American Revolution but was even used as currency in Australia. This book chronicles the five-hundred-year evolution of rum from a raw spirit concocted for slaves to a beverage savored by connoisseurs. Charting the drink's history, Foss shows how rum left its mark on religious rituals—it remains a sacramental offering among voodoo worshippers—and became part of popular songs and other cultural landmarks. He also includes recipes for sweet and savory rum dishes and obscure drinks, as well as illustrations of rum memorabilia from its earliest days to the tiki craze of the 1950s. Fast-paced and well written, *Rum* will delight any fan of mojitos and mai tais.

**Concepts of Biology**-Samantha Fowler 2018-01-07 *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.

**Particle Physics Brick by Brick**-Ben Still 2017-09-21 Using LEGO® blocks to create a uniquely visual and clear depiction of the way our universe is put together. This is the perfect introduction to the enigmatic and fascinating world of Quantum Physics. Our story starts with the Big Bang, and along the way, the constructs and interactions within and among atoms and sub-atomic particles, and the forces that play upon them, are clearly explained, with each LEGO® block representing a different atomic or sub-atomic particle. The different colours and size denote what that particle is and its relationship with the other 'building blocks'. Each chapter is presented in digestible chunks, using toy building blocks to illustrate the ideas and experiments that have led to some of the biggest discoveries of the past 150 years. Soon you'll be able to construct every element in the Universe using a box of LEGO® and this book!

**The Elements**-Jack Challoner 2020-01-04 What links the Taj Mahal and our skeleton? Calcium. The Eiffel Tower and our blood? Iron. Everything in the known universe is made up of one of the elements. Popular-science writer Jack Challoner takes us on an illustrated tour of the Periodic Table, revealing the mystery of how the material world works. This definitive guide covers all 118 elements, with their vital statistics, main compounds, uses, and fascinating histories.

**Crystal Fire**-Michael Riordan 1997 Focuses on the human factors behind the invention of the twentieth century's defining artifact, the transistor, highlighting the pride, jealousy, and scientific ambitions of the Bell Labs team who spawned the epoch-making technology.

**Visualizing Nuclear Power in Japan**-Morris Low 2020-05-28 This book explores how Japanese views of nuclear power were influenced not only by Hiroshima and Nagasaki but by government, business and media efforts to actively promote how it was a safe and integral part of Japan's future. The idea of "atoms for peace" and the importance of US-Japan relations were emphasized in exhibitions and in films. Despite the emergence of an anti-nuclear movement, the dream of civilian nuclear power and the "good atom" nevertheless prevailed and became more accepted. By the late 1950s, a school trip to see a reactor was becoming a reality for young Japanese, and major events such as the 1964 Tokyo Olympics and 1970 Osaka Expo seemed to reinforce the narrative that the Japanese people were destined for a future led by science and technology that was powered by the atom, a dream that was left in disarray after the Fukushima nuclear disaster in 2011.

**This Atom Bomb in Me**-Lindsey A. Freeman 2019-02-12 This Atom Bomb in Me traces what it felt like to grow up suffused with American nuclear culture in and around the atomic city of Oak Ridge, Tennessee. As a secret city during the Manhattan Project, Oak Ridge enriched the uranium that powered Little Boy, the bomb that destroyed Hiroshima. The city was a major nuclear production site throughout the Cold War, adding something to each and every bomb in the United States arsenal. Even today, Oak Ridge contains the world's largest supply of fissionable uranium. The granddaughter of an atomic courier, Lindsey A. Freeman turns a critical yet nostalgic eye to the place where her family was sent as part of a covert government plan. There was a city devoted to nuclear science within a larger America obsessed with its nuclear prowess. Through memories, mysterious photographs, and uncanny childhood toys, she shows how Reagan-era politics and nuclear culture irradiated the late twentieth century. Alternately tender and alarming, her book takes a Geiger counter to recent history, reading the half-life of the atomic past as it resonates in our tense nuclear present.

**Atom and Void**-J. Robert Oppenheimer 2014-07-14 J. Robert Oppenheimer was one of the outstanding physicists of his generation. He was also an immensely gifted writer and speaker, who thought deeply about the way that scientific discoveries have changed the way people live and think. Displaying his subtlety of thought and expression as do few other documents, this book of his lectures discusses the moral and cultural implications of developments in modern physics. Originally published in 1989. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of

Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

**Map Stories**-Francisca Matteoli 2016-11-01 Through this magnificent collection of historical maps, travel writer Francisca Mattéoli takes us on a geographical adventure, telling the stories of twenty places and voyages that inspired her and the creation of these fascinating charts. Discover some of the world's most magical places and how they revealed themselves, from the lost trails of the first colonies of the American West to Amundsen's exploration of the South Pole, and the rediscoveries of Petra and Angkor Wat. This unexpected volume will let the curious mind roam the contours of the planet, and discover how the world we know today was made, and un-made.

**The Brain Book**-Ken Ashwell 2012-09-18 The Brain Book investigates the amazingly complex and intriguing structure that is the human brain. Made up of billions of nerve cells, the brain controls our thoughts, movements, behaviour and emotions. This comprehensive book explores such diverse topics as how we sense the world, consciousness and memory, through to diseases and disorders, the ageing brain and spinal injury repair. Containing the latest medical research, The Brain Book explains in concise, clear language important health issues such as the effects of recreational drugs and medicines on the brain, strokes, tumours and the biological basis of mental illness. Hundreds of colour images, including stunning 3-D illustrations created exclusively for this book, reveal the intricate workings of the brain to show incredible details beyond what the eye can usually see.

**Molecules**-Theodore Gray 2016-10-04 In his highly anticipated sequel to The Elements, Theodore Gray demonstrates how the elements of the periodic table combine to form the molecules that make up our world. Everything physical is made up of the elements and the infinite variety of molecules they form when they combine with each other. In Molecules, Theodore Gray takes the next step in the grand story that began with the periodic table in his best-selling book, The Elements: A Visual Exploration of Every Known Atom in the Universe. Here, he explores through fascinating stories and trademark stunning photography the most interesting, essential, useful, and beautiful of the millions of chemical structures that make up every material in the world. Gray begins with an explanation of how atoms bond to form molecules and compounds, as well as the difference between organic and inorganic chemistry. He then goes on to explore the vast array of materials molecules can create, including: soaps and solvents; goops and oils; rocks and ores; ropes and fibers; painkillers and dangerous drugs; sweeteners; perfumes and stink bombs; colors and pigments; and controversial compounds including asbestos, CFCs, and thimerosal. Theodore Gray is the author of The Elements: A Visual Exploration of Every Known Atom in the Universe; Theo Gray's Mad Science: Experiments You Can Do At Home, But Probably Shouldn't; Mad Science 2: Experiments You Can Do At Home, But Still Probably Shouldn't; and Popular Science magazine's "Gray Matter" column. With his company Touch Press, Gray is the developer of best-selling iPad and iPhone apps, including The Elements, Solar System, Disney Animated, The Orchestra, The Waste Land, and Skulls by Simon Winchester. He lives in Urbana, Illinois. Nick Mann is the photographer of The Elements: A Visual Exploration of Every Known Atom in the Universe. Aside from having photographed more elements and compounds than probably anyone in the world, he is an accomplished landscape, sports, and event photographer. He lives in Urbana, Illinois.

**Hiroshima**-John Hersey 2020-06-23 Hiroshima is the story of six people--a clerk, a widowed seamstress, a physician, a Methodist minister, a young surgeon, and a German Catholic priest--who lived through the greatest single manmade disaster in history. In vivid and indelible prose, Pulitzer Prize-winner John Hersey traces the stories of these half-dozen individuals from 8:15 a.m. on August 6, 1945, when Hiroshima was destroyed by the first atomic bomb ever dropped on a city, through the hours and days that followed. Almost four decades after the original publication of this celebrated book, Hersey went back to Hiroshima in search of the people whose stories he had told, and his account of what he discovered is now the eloquent and moving final chapter of Hiroshima.

**Atom (Icon Science)**-Piers Bizony 2017-05-04 Riddled with jealousy, rivalry, missed opportunities and moments

of genius, the history of the atom's discovery is as bizarre, as capricious, and as weird as the atom itself. John Dalton gave us the first picture of the atom in the early 1800s. Almost 100 years later the young misfit New Zealander, Ernest Rutherford, showed the atom consisted mostly of space, and in doing so overturned centuries of classical science. It was a brilliant Dane, Neils Bohr, who made the next great leap - into the incredible world of quantum theory. Yet, he and a handful of other revolutionary young scientists weren't prepared for the shocks Nature had up her sleeve. This 'insightful, compelling' book (New Scientist) reveals the mind-bending discoveries that were destined to upset everything we thought we knew about reality and unleash a dangerous new force

upon the world. Even today, as we peer deeper and deeper into the atom, it throws back as many questions at us as answers.