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Elements

Real-world advice on how to be invisible online from "the FBI's most-wanted hacker" (Wired) Your every step online is being tracked and stored, and your identity easily stolen. Big companies and big governments want to know and exploit what you do, and privacy is a luxury few can afford or understand.

In this explosive yet practical book, computer-security expert Kevin Mitnick uses true-life stories to show exactly what is happening without your knowledge, and teaches you "the art of invisibility": online and everyday tactics to protect you and your family, using easy step-by-step instructions. Reading this book, you will learn everything from password protection and smart Wi-Fi usage to advanced techniques designed to maximize your anonymity. Invisibility isn't just for superheroes--privacy is a power you deserve and need in the age of Big Brother and Big Data.

The Violinist's Thumb

Nigella Christmas comprises reliable, practical, easy-to-follow recipes and inspiring and reassuring advice, presented in a gorgeous package that will make this the ultimate gift to yourself, your family and friends. Nigella Christmas will surely become an all-time perennial favourite, the book we will all reach for – for minimum stress and maximum enjoyment – at holiday season. Recipes include everything from Christmas cakes and puddings to quick homemade presents (cookies and chutneys); food to cook and freeze ahead; oven slow-cooking; “hero” ingredients; as well as party food and drinks. And, of course, exciting and inspiring variations for the Main Event – from traditional turkey, festive ham and special trimmings; to a Swedish or Polish Christmas à la Nigella; to a vegetarian Christmas feast. From the Hardcover edition.

Condensed Matter in a Nutshell

Leonard Cassuto's cultural history of the hard-boiled crime genre recovers the fascinating link between tough guys and sensitive women

The Disappearing Spoon

A young readers edition of the New York Times bestseller *The Disappearing Spoon*, chronicling the extraordinary stories behind one of the greatest scientific tools in existence: the periodic table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history? The periodic table is a crowning scientific achievement, but it's also a treasure trove of adventure, greed, betrayal, and obsession. The fascinating tales in *The Disappearing Spoon* follow elements on the table as they play out their parts in human history, finance, mythology, conflict, the arts, medicine, and the lives of the (frequently) mad scientists who discovered them. Adapted for a middle grade audience, the young readers edition of *The Disappearing Spoon* offers the material in a simple, easy-to-follow format, with approximately 20 line drawings and sidebars throughout. Students, teachers, and burgeoning science buffs will love learning about the history behind the chemistry.

The Alchemy of Us

Why did Gandhi hate iodine (I, 53)? Why did the Japanese kill Godzilla with missiles made of cadmium (Cd, 48)? How did radium (Ra, 88) nearly ruin Marie

Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history? The periodic table is one of our crowning scientific achievements, but it's also a treasure trove of passion, adventure, betrayal and obsession. The fascinating tales in *The Disappearing Spoon* follow carbon, neon, silicon, gold and every single element on the table as they play out their parts in human history, finance, mythology, conflict, the arts, medicine and the lives of the (frequently) mad scientists who discovered them. Why did a little lithium (Li, 3) help cure poet Robert Lowell of his madness? And how did gallium (Ga, 31) become the go-to element for laboratory pranksters? *The Disappearing Spoon* has the answers, fusing science with the classic lore of invention, investigation, discovery and alchemy, from the big bang through to the end of time.

Napoleon's Buttons

Dr. Harvey Washington Wiley set out to ensure food safety. The tasters were recognized for their courage, and became known as the poison squad.

The Poison Squad

The New York Times bestseller is now in softcover with a bonus chapter on how the “Dare to Be Uncommon” movement is reaching schools, teams, and families across the country and an update on Tony’s life since retiring as head coach of the Indianapolis Colts. What does it take to live a life of

significance? When Indianapolis Colts coach Tony Dungy took home the trophy in Super Bowl XLI, fans around the world looked to him as the epitome of success. Athletic victory, professional excellence, fame and celebrity, awards and honors—he had it all. But even in that moment, he knew those achievements had little to do with his ultimate significance as a man. Coach Dungy still passionately believes that there is a different path to significance—a path characterized by attitudes, ambitions, and allegiances that are all too rare but uncommonly rewarding. In the New York Times best seller *Uncommon*, Dungy reveals secrets to achieving significance that he has learned from his remarkable parents, his athletic and coaching career, his mentors, and his walk with God.

Cod

For centuries, scientists had only one way to study the brain: wait for misfortune to strike - strokes, seizures, infections, lobotomies, horrendous accidents, phantom limbs, Siamese twins - and see how the victims changed afterwards. In many cases their survival was miraculous, and observers marvelled at the transformations that took place when different parts of the brain were destroyed. Parents suddenly couldn't recognise their children. Pillars of the community became pathological liars and paedophiles. Some people couldn't speak but could still sing. Others couldn't read but could write. The stories of these people laid the foundations of modern neuroscience and, century by century, key

cases taught scientists what every last region of the brain did. With lucid explanations and incisive wit, Sam Kean explores the brain's secret passageways and recounts the forgotten tales of the ordinary individuals whose struggles, resilience and deep humanity made neuroscience possible.

Hard-boiled Sentimentality

In this tour de force, master storyteller Gregory Maguire offers a dazzling novel for fantasy lovers of all ages. Elena Rudina lives in the impoverished Russian countryside. Her father has been dead for years. One of her brothers has been conscripted into the Tsar's army, the other taken as a servant in the house of the local landowner. Her mother is dying, slowly, in their tiny cabin. And there is no food. But then a train arrives in the village, a train carrying untold wealth, a cornucopia of food, and a noble family destined to visit the Tsar in Saint Petersburg — a family that includes Ekaterina, a girl of Elena's age. When the two girls' lives collide, an adventure is set in motion, an escapade that includes mistaken identity, a monk locked in a tower, a prince traveling incognito, and — in a starring role only Gregory Maguire could have conjured — Baba Yaga, witch of Russian folklore, in her ambulatory house perched on chicken legs.

Stuff Matters

The bestselling popular science author reveals “the connections between what we teach in chemistry

courses and the world in which . . . [we] live” (ChemEd X). Interesting anecdotes and engaging tales make science fun, meaningful, and accessible. Separating sense from nonsense and fact from fiction, these essays cover everything from the ups of helium to the downs of drain cleaners, and provide answers to numerous mysteries, such as why bug juice is used to color ice cream and how spies used secret inks. Mercury in teeth, arsenic in water, lead in the environment, and aspartame in food are also discussed. Mythbusters include the fact that Edison did not invent the light bulb and that walking on hot coals does not require paranormal powers. The secret life of bagels is revealed, and airbags, beer, and soap yield their mysteries. These and many more surprising, educational, and entertaining commentaries show the relevance of science to everyday life. “A delightful and informative read. Dr. Schwarcz tells it like it is, whether the subject is light at heart or as weighty as death.” —The Cosmic Chemist “Fascinating [this book] is, thanks to the author’s lively style and contagious enthusiasm for chemistry, and his ability to make it accessible . . . connects the dots between such unlikely events as the madness of King George III and the royal fondness for sauerkraut; and between gluten, the molecular make-up of trans-fatty acids, and how the cookie crumbles.” —Montreal Review of Books

Caesar's Last Breath

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance,

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mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters?* The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

Liquid Rules

Examines the roles that the molecular properties of such items as the birth control pill, caffeine, and the buttons on the uniforms of Napoleon's army have played in the course of history.

The Men Who United the States

Equal parts true crime, twentieth-century history, and science thriller, *The Poisoner's Handbook* is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie" (The New York

Observer) A fascinating Jazz Age tale of chemistry and detection, poison and murder, *The Poisoner's Handbook* is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's *AMERICAN EXPERIENCE* released a film based on *The Poisoner's Handbook*.

Uncommon

New York Times Bestseller • New York Times Notable Book 2014 • Winner of the Royal Society Winton Prize for Science Books "A thrilling account of the modern material world." —Wall Street Journal "Miodownik, a materials scientist, explains the history and science behind things such as paper, glass, chocolate, and concrete with an infectious enthusiasm." —Scientific American Why is glass see-through? What makes elastic stretchy? Why does any material look and behave the way it does? These are the sorts of questions that renowned materials scientist Mark Miodownik constantly asks himself. Miodownik studies objects as ordinary as an envelope and as unexpected as concrete cloth, uncovering the fascinating secrets

that hold together our physical world. In *Stuff Matters*, Miodownik explores the materials he encounters in a typical morning, from the steel in his razor to the foam in his sneakers. Full of enthralling tales of the miracles of engineering that permeate our lives, *Stuff Matters* will make you see stuff in a whole new way. "Stuff Matters is about hidden wonders, the astonishing properties of materials we think boring, banal, and unworthy of attention. It's possible this science and these stories have been told elsewhere, but like the best chocolatiers, Miodownik gets the blend right." —New York Times Book Review

The Disappearing Spoon

The Guardian's Best Science Book of 2017
One of Science News's Favorite Science Books of 2017
The fascinating science and history of the air we breathe. It's invisible. It's ever-present. Without it, you would die in minutes. And it has an epic story to tell. In *Caesar's Last Breath*, New York Times bestselling author Sam Kean takes us on a journey through the periodic table, around the globe, and across time to tell the story of the air we breathe, which, it turns out, is also the story of earth and our existence on it. With every breath, you literally inhale the history of the world. On the ides of March, 44 BC, Julius Caesar died of stab wounds on the Senate floor, but the story of his last breath is still unfolding; in fact, you're probably inhaling some of it now. Of the sextillions of molecules entering or leaving your lungs at this moment, some might well bear traces of Cleopatra's perfumes, German mustard gas, particles exhaled by

dinosaurs or emitted by atomic bombs, even remnants of stardust from the universe's creation. Tracing the origins and ingredients of our atmosphere, Kean reveals how the alchemy of air reshaped our continents, steered human progress, powered revolutions, and continues to influence everything we do. Along the way, we'll swim with radioactive pigs, witness the most important chemical reactions humans have discovered, and join the crowd at the Moulin Rouge for some of the crudest performance art of all time. Lively, witty, and filled with the astounding science of ordinary life, Caesar's Last Breath illuminates the science stories swirling around us every second.

Nigella Christmas

How to Use This Book This book is to be used along side the bestselling book, *The Disappearing Spoon* by Sam Kean for anyone who wants to learn about the periodic table in an engaging and unique way. For students: The study questions are in order and follow Sam Kean's narrative. Answer the questions as you read the book. The answers are in the back section. For teachers: This is an easy and interesting resource to help your students learn about the periodic table. Never has it been put in a way that transforms a normally dry subject into a page-turner. This is a step-by-step guide to help students learn about the elements. Use your own unique teaching style to supplement the *Pembroke Notes* with engaging activities and experiments. With the new Common Core standards and a push to increased rigor, I have

added a Writing Workshop section at the end of my book to help you with writing assignments. For homeschools: Your high school student will love the easy guide to help him/her in her reading of *The Disappearing Spoon*. Parents, be prepared for active discussions with your teenager while you read along with him/her. A Writing Workshop is supplied at the end of the book as a guide. Have fun. When not teaching or working on district curriculum in Alaska, Peggy and her husband, Bill, armed with fishing poles, make their home in Pittsburg, Missouri.

The Triumphal Chariot of Antimony

The author of *A Life Decoded* explains how his team's achievement with sequencing the human genome has launched an important age of biological research, revealing a growing potential for enabling humans to adapt and evolve for long-term survival and environmental improvement.

Egg & Spoon

Wars have been fought over it, revolutions have been spurred by it, national diets have been based on it, economies have depended on it, and the settlement of North America was driven by it. Cod, it turns out, is the reason Europeans set sail across the Atlantic, and it is the only reason they could. What did the Vikings eat in icy Greenland and on the five expeditions to America recorded in the Icelandic sagas? Cod -- frozen and dried in the frosty air, then broken into pieces and eaten like hardtack. What was the staple

of the medieval diet? Cod again, sold salted by the Basques, an enigmatic people with a mysterious, unlimited supply of cod. Cod is a charming tour of history with all its economic forces laid bare and a fish story embellished with great gastronomic detail. It is also a tragic tale of environmental failure, of depleted fishing stocks where once the cod's numbers were legendary. In this deceptively whimsical biography of a fish, Mark Kurlansky brings a thousand years of human civilization into captivating focus. From the Trade Paperback edition.

Wonderful Life with the Elements

From New York Times bestselling author Sam Kean comes the gripping, untold story of a renegade group of scientists and spies determined to keep Adolf Hitler from obtaining the ultimate prize: a nuclear bomb. Scientists have always kept secrets. But rarely have the secrets been as vital as they were during World War II. In the middle of building an atomic bomb, the leaders of the Manhattan Project were alarmed to learn that Nazi Germany was far outpacing the Allies in nuclear weapons research. Hitler, with just a few pounds of uranium, would have the capability to reverse the entire D-Day operation and conquer Europe. So they assembled a rough and motley crew of geniuses -- dubbed the Alsos Mission -- and sent them careening into Axis territory to spy on, sabotage, and even assassinate members of Nazi Germany's feared Uranium Club. The details of the mission rival the finest spy thriller, but what makes this story sing is the incredible cast of characters --

both heroes and rogues alike -- including: Moe Bergm, the major league catcher who abandoned the game for a career as a multilingual international spy; the strangest fellow to ever play professional baseball. Werner Heisenberg, the Nobel Prize-winning physicist credited as the discoverer of quantum mechanics; a key contributor to the Nazi's atomic bomb project and the primary target of the Alsos mission. Colonel Boris Pash, a high school science teacher and veteran of the Russian Revolution who fled the Soviet Union with a deep disdain for Communists and who later led the Alsos mission. Joe Kennedy Jr., the charismatic, thrill-seeking older brother of JFK whose need for adventure led him to volunteer for the most dangerous missions the Navy had to offer. Samuel Goudsmit, a washed-up physics prodigy who spent his life hunting Nazi scientists -- and his parents, who had been swept into a concentration camp -- across the globe. Irène and Frederic Joliot-Curie, a physics Nobel-Prize winning power couple who used their unassuming status as scientists to become active members of the resistance. Thrust into the dark world of international espionage, these scientists and soldiers played a vital and largely untold role in turning back one of the darkest tides in human history.

African American Women Chemists

'From now on, you must eat cabbage three times a day And if it's got caterpillars in it, so much the better!' Most grandmas are kind and helpful ladies. Not George's grandma. She's a grumpy and grizzly old grouch and George wants to teach her a lesson.

So when it's time for her medicine, George concocts a mixture which is guaranteed to send her through the roof. This also includes a whole new exciting end section about Roald Dahl and his world.

The Disappearing Spoon and other true tales from the Periodic Table

George's Marvellous Medicine

Why did Gandhi hate iodine (I, 53)? Why did the Japanese kill Godzilla with missiles made of cadmium (Cd, 48)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history? The periodic table is one of our crowning scientific achievements, but it's also a treasure trove of passion, adventure, betrayal and obsession. The fascinating tales in *The Disappearing Spoon* follow carbon, neon, silicon, gold and every single element on the table as they play out their parts in human history, finance, mythology, conflict, the arts, medicine and the lives of the (frequently) mad scientists who discovered them. Why did a little lithium (Li, 3) help cure poet Robert Lowell of his madness? And how did gallium (Ga, 31) become the go-to element for laboratory pranksters? *The Disappearing Spoon* has the answers, fusing science with the classic lore of invention, investigation, discovery and alchemy, from the big bang through to the end of time.

The Disappearing Spoon

Sometimes explosive, often delicious, occasionally poisonous, but always interesting: the New York Times best-selling author of *Stuff Matters* show us the secret lives of liquids: the shadow counterpart of our solid “stuff.” We know that we need water to survive, and that a cup of coffee or a glass of wine can feel just as vital. But do we understand how much we rely on liquids, or their destructive power? Set on a transatlantic flight, *Liquid Rules* offers readers a tour of these formless substances, told through the language of molecules, droplets, heartbeats, and ocean waves. We encounter fluids within the plane—from hand soap to liquid crystal display screens—and without: in the volcanoes of Iceland, the frozen expanse of Greenland, and the marvelous California coastline. We come to see liquids with wonder and fascination, and to understand their potential for death and destruction. Just as in *Stuff Matters*, Mark Miodownik’s unique brand of scientific storytelling brings liquids to life in a captivating new way.

Elemental

An introduction to the area of condensed matter in a nutshell. This textbook covers the standard topics, including crystal structures, energy bands, phonons, optical properties, ferroelectricity, superconductivity, and magnetism.

Disappearing Spoon and Other True

Tales of Rivalry, Adventure and the History Of

A classical 17th-century text of alchemy expertly translated from the Latin.

Rabid

If you want to understand how our world works, the periodic table holds the answers. When the seventh row of the periodic table of elements was completed in June 2016 with the addition of four final elements—nihonium, moscovium, tennessine, and oganesson—we at last could identify all the ingredients necessary to construct our world. In *Elemental*, chemist and science educator Tim James provides an informative, entertaining, and quirkily illustrated guide to the table that shows clearly how this abstract and seemingly jumbled graphic is relevant to our day-to-day lives. James tells the story of the periodic table from its ancient Greek roots, when you could count the number of elements humans were aware of on one hand, to the modern alchemists of the twentieth and twenty-first centuries who have used nuclear chemistry and physics to generate new elements and complete the periodic table. In addition to this, he answers questions such as: What is the chemical symbol for a human? What would happen if all of the elements were mixed together? Which liquid can teleport through walls? Why is the medieval dream of transmuting lead into gold now a reality? Whether you're studying the periodic table for the first time or are simply

interested in the fundamental building blocks of the universe—from the core of the sun to the networks in your brain—Elemental is the perfect guide.

Chemistry

From the brilliant mind of Japanese artist Bunpei Yorifuji comes *Wonderful Life with the Elements*, an illustrated guide to the periodic table that gives chemistry a friendly face. In this super periodic table, every element is a unique character whose properties are represented visually: heavy elements are fat, man-made elements are robots, and noble gases sport impressive afros. Every detail is significant, from the length of an element's beard to the clothes on its back. You'll also learn about each element's discovery, its common uses, and other vital stats like whether it floats—or explodes—in water. Why bother trudging through a traditional periodic table? In this periodic paradise, the elements are people too. And once you've met them, you'll never forget them.

That's the Way the Cookie Crumbles

Simon Winchester, the acclaimed New York Times bestselling author of *Atlantic* and *The Professor and the Madman*, delivers his first book about America: a fascinating popular history that illuminates the men who toiled fearlessly to discover, connect, and bond the citizenry and geography of the U.S.A. from its beginnings. How did America become “one nation, indivisible”? What unified a growing number of disparate states into the modern country we

recognize today? To answer these questions, Winchester follows in the footsteps of America's most essential explorers, thinkers, and innovators, such as Lewis and Clark and the leaders of the Great Surveys; the builders of the first transcontinental telegraph and the powerful civil engineer behind the Interstate Highway System. He treks vast swaths of territory, from Pittsburgh to Portland, Rochester to San Francisco, Seattle to Anchorage, introducing the fascinating people who played a pivotal role in creating today's United States. Throughout, he ponders whether the historic work of uniting the States has succeeded, and to what degree. Featuring 32 illustrations throughout the text, *The Men Who United the States* is a fresh look at the way in which the most powerful nation on earth came together.

The Periodic Table

Growing up in suburban Detroit, David Hahn was fascinated by science, and his basement experiments—building homemade fireworks, brewing moonshine, and concocting his own self-tanning lotion—were more ambitious than those of other boys. While working on his Atomic Energy badge for the Boy Scouts, David's obsessive attention turned to nuclear energy. Throwing caution to the wind, he plunged into a new project: building a nuclear breeder reactor in his backyard garden shed. In *The Radioactive Boy Scout*, veteran journalist Ken Silverstein recreates in brilliant detail the months of David's improbable nuclear quest. Posing as a physics professor, David solicited information on reactor design from the U.S.

government and from industry experts. (Ironically, the Nuclear Regulatory Commission was his number one source of information.) Scavenging antiques stores and junkyards for old-fashioned smoke detectors and gas lanterns—both of which contain small amounts of radioactive material—and following blueprints he found in an outdated physics textbook, David cobbled together a crude device that threw off toxic levels of radiation. His unsanctioned and wholly unsupervised project finally sparked an environmental catastrophe that put his town's forty thousand residents at risk and caused the EPA to shut down his lab and bury it at a radioactive dumpsite in Utah. An outrageous account of ambition and, ultimately, hubris that sits comfortably on the shelf next to such offbeat science books as *Driving Mr. Albert* and stories of grand capers like *Catch Me If You Can*, *The Radioactive Boy Scout* is a real-life adventure with the narrative energy of a first-rate thriller.

Disappearing Spoon and Other True Tales of Rivalry, Adventure and the History of

From New York Times bestselling author Sam Kean comes incredible stories of science, history, language, and music, as told by our own DNA. In *The Disappearing Spoon*, bestselling author Sam Kean unlocked the mysteries of the periodic table. In *THE VIOLINIST'S THUMB*, he explores the wonders of the magical building block of life: DNA. There are genes to explain crazy cat ladies, why other people have no fingerprints, and why some people survive nuclear

bombs. Genes illuminate everything from JFK's bronze skin (it wasn't a tan) to Einstein's genius. They prove that Neanderthals and humans bred thousands of years more recently than any of us would feel comfortable thinking. They can even allow some people, because of the exceptional flexibility of their thumbs and fingers, to become truly singular violinists. Kean's vibrant storytelling once again makes science entertaining, explaining human history and whimsy while showing how DNA will influence our species' future.

The Disappearing Spoon

The legendary FBI criminal profiler, number-one New York Times bestselling author, and inspiration for the hit Netflix show *Mindhunter* delves deep into the lives and crimes of four of the most disturbing and complex predatory killers, offering never-before-revealed details about his profiling process, and divulging the strategies used to crack some of America's most challenging cases. The FBI's pioneer of criminal profiling, former special agent John Douglas, has studied and interviewed many of America's most notorious killers—including Charles Manson, "Son of Sam Killer" David Berkowitz and "BTK Strangler" Dennis Rader—trained FBI agents and investigators around the world, and helped educate the country about these deadly predators and how they operate, and has become a legend in popular culture, fictionalized in *The Silence of the Lambs* and the hit television shows *Criminal Minds* and *Mindhunter*. Twenty years after his famous memoir, the man who

literally wrote the book on FBI criminal profiling opens his case files once again. In this riveting work of true crime, he spotlights four of the most diabolical criminals he's confronted, interviewed and learned from. Going deep into each man's life and crimes, he outlines the factors that led them to murder and how he used his interrogation skills to expose their means, motives, and true evil. Like the hit Netflix show, *The Killer Across the Table* is centered around Douglas' unique interrogation and profiling process. With his longtime collaborator Mark Olshaker, Douglas recounts the chilling encounters with these four killers as he experienced them—revealing for the first time his profile methods in detail. Going step by step through his interviews, Douglas explains how he connects each killer's crimes to the specific conversation, and contrasts these encounters with those of other deadly criminals to show what he learns from each one. In the process, he returns to other famous cases, killers and interviews that have shaped his career, describing how the knowledge he gained from those exchanges helped prepare him for these. A glimpse into the mind of a man who has pierced the heart of human darkness, *The Killer Across the Table* unlocks the ultimate mystery of depravity and the techniques and approaches that have countered evil in the name of justice.

The Art of Invisibility

In the bestselling tradition of *Stuff Matters* and *The Disappearing Spoon*: a clever and engaging look at materials, the innovations they made possible, and

how these technologies changed us. In *The Alchemy of Us*, scientist and science writer Ainissa Ramirez examines eight inventions—clocks, steel rails, copper communication cables, photographic film, light bulbs, hard disks, scientific labware, and silicon chips—and reveals how they shaped the human experience. Ramirez tells the stories of the woman who sold time, the inventor who inspired Edison, and the hotheaded undertaker whose invention pointed the way to the computer. She describes, among other things, how our pursuit of precision in timepieces changed how we sleep; how the railroad helped commercialize Christmas; how the necessary brevity of the telegram influenced Hemingway's writing style; and how a young chemist exposed the use of Polaroid's cameras to create passbooks to track black citizens in apartheid South Africa. These fascinating and inspiring stories offer new perspectives on our relationships with technologies. Ramirez shows not only how materials were shaped by inventors but also how those materials shaped culture, chronicling each invention and its consequences—intended and unintended. Filling in the gaps left by other books about technology, Ramirez showcases little-known inventors—particularly people of color and women—who had a significant impact but whose accomplishments have been hidden by mythmaking, bias, and convention. Doing so, she shows us the power of telling inclusive stories about technology. She also shows that innovation is universal—whether it's splicing beats with two turntables and a microphone or splicing genes with two test tubes and CRISPR.

Periodic Tales

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!

The Poisoner's Handbook

'The history, science, art, literature and everyday applications of all the elements from aluminium to zinc' The Times Everything in the universe is made of them, including you. Like you, the elements have personalities, attitudes, talents, shortcomings, stories rich with meaning. Here you'll meet iron that rains from the heavens and noble gases that light the way to vice. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table. Unlocking their astonishing secrets and colourful pasts, Periodic Tales is a voyage of wonder and discovery, showing that their stories are our stories, and their lives are inextricable from our own. 'Science writing at its best. A fascinating and beautiful literary anthology, bringing them to life as personalities. If only chemistry had been like this at school. A rich compilation of delicious tales' Matt Ridley, Prospect 'A love letter to the chemical elements. Aldersey-Williams is full of good stories and he knows how to tell them well' Sunday Telegraph 'Great fun to read and an endless fund of unlikely and improbable anecdotes' Financial Times

The Killer Across the Table

The exciting topic of Chemistry is explored, covering the atom--protons, neutrons, electrons, nucleus--as well as the basics of the periodic table, elements and atomic number. This is followed by an examination of individual elements, such as Lithium, Helium, Carbon, Sodium, Neon and Oxygen. Sound it out sections aid young readers in pronunciation and elementary definitions allow basic understanding of complex topics. Learn the vocabulary of a genius at a young age!

Life at the Speed of Light

Charts the history, science and cultural mythology of rabies, documenting how before its vaccine the disease caused fatal brain infections and sparked the creations of famous monsters including werewolves, vampires and zombies. 15,000 first printing.

The Tale of the Duelling Neurosurgeons

"Beginning with Dr. Marie Maynard Daly, the first African American woman to receive a PhD in chemistry in the United States--in 1947, from Columbia University--this well researched and fascinating book celebrate the lives and history of African American women chemists. Written by Jeannette Brown, an African American chemist herself, the book profiles the lives of numerous women, ranging from the earliest pioneers up until the late 1960's when the Civil Rights Acts sparked

greater career opportunities. Brown examines each woman's motivation to pursue chemistry, describes their struggles to obtain an education and their efforts to succeed in a field in which there were few African American men, much less African American women, and details their often quite significant accomplishments. The book looks at chemists in academia, industry, and government, as well as chemical engineers, whose career path is very different from that of the tradition chemist, and it concludes with a chapter on the future of African American women chemists, which will be of interest to all women interested in a career in science"--

The Disappearing Spoon Study Guide

The Bastard Brigade

One of Italy's leading men of letters, a chemist by profession, writes about incidents in his life in which one or another of the elements figured in such a way as to become a personal preoccupation

The Radioactive Boy Scout

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