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Have you ever wondered why the language of modern physics centres on geometry? Or how quantum operators and Dirac brackets work? What a convolution really is? What tensors are all about? Or what field theory and lagrangians are, and why gravity is described as curvature? This book takes you on a tour of the main ideas forming the language of modern mathematical physics. Here you will meet novel approaches to concepts such as determinants and geometry, wave function evolution, statistics, signal processing, and three-dimensional rotations. You will see how the accelerated frames of special relativity tell us about gravity. On the journey, you will discover how tensor notation relates to vector calculus, how differential geometry is built on intuitive concepts, and how variational calculus leads to field theory. You will meet quantum measurement theory, along with Green functions and the art of complex integration, and finally general relativity and cosmology. The book takes a fresh approach to tensor analysis built solely on the metric and vectors, with no need for one-forms. This gives a much more geometrical and intuitive insight into vector and tensor calculus, together with general relativity, than do traditional, more abstract methods. Don Koks is a physicist at the Defence Science and Technology Organisation in Adelaide, Australia. His doctorate in quantum cosmology was obtained from the Department of Physics and Mathematical Physics at Adelaide University. Prior work at the University of Auckland specialised in applied accelerator physics, along with pure and applied mathematics. Over two billion people worldwide are at risk for the spectrum of disorders known as "The Iodine Deficiency Disorders." 1-10% will suffer cretinism; 5-30% will have some sort of brain damage or neurological impairment and 30-70% will be hypothyroid. The causes of iodine deficiencies can be considered from both simplistic and more complex perspectives: From the leaching of iodine from soil resulting in crops with low iodine content to malnutrition resulting in impaired iodine absorption. Poor dietary diversification and impoverished socio-economic development can also lead to iodine deficiencies. Although it is possible to diagnose and treat deficiencies, there is still an ongoing dialogue regarding the detailed molecular pathology of iodine homeostasis, how hypothyroidism impacts the body tissues, and efficient diagnosis and treatment of the Iodine Deficiency Disorders. This Handbook provides a resource of information on the various pathways and processes based on different countries or diseases. Because there is a constant flow of new information on iodine and related disorders, the goal of this Handbook is to provide a base of scientific information upon which additional knowledge can be applied. Provides important information on one of the most common micro-nutrient deficiencies in the world, the most important "single nutrient-multiple consequences" paradigm today Includes information on iodine-related diseases, including those that are common, preventable and treatable Provides insight from a broad perspective of viewpoints -- from subcellular transports to economic impact A novel of one desperate woman's hopes and desires set in contemporary Prague from "a literary gem who is too little

appreciated in the West” (The Boston Globe). Divorced, approaching fifty, and mother to a rebellious fifteen-year-old, Kristyna is beginning to feel the strain of her bleak existence—until she finds a new sense of joy when she begins a love affair with a man fifteen years her junior. But her escape into romance is far from complete. She worries about her daughter Jana, who has been cutting school, and may be using heroin—the latest plague on the city. And Kristyna’s mother has forced her to accept the personal papers of her dead father, a tyrant whose Stalinist ideals she despised. At a crossroads in her life, she must find a way to put the past behind her and deal with the challenges of the present in a Czechoslovakia that is still trying to overcome years of communist oppression. In this Washington Post Best Book of 2001, Klima “unflinchingly presents the problems facing modern Prague and civilization in general . . . [and] fills it with mercy” (San Francisco Chronicle). The memo landed on Kim Philby's desk in Washington, DC, in July 1950. Three months later, Bruno Pontecorvo, a physicist at Harwell, Britain's atomic energy lab, disappeared without a trace. When he re-surfaced six years later, he was on the other side of the Iron Curtain. One of the most brilliant scientists of his generation, Pontecorvo was privy to many secrets: he had worked on the Anglo-Canadian arm of the Manhattan Project, and quietly discovered a way to find the uranium coveted by nuclear powers. Yet when he disappeared MI5 insisted he was not a threat. Now, based on unprecedented access to archives, letters, surviving family members and scientists, award-winning writer and physics professor Frank Close exposes the truth about a man irrevocably marked by the advent of the atomic age and the Cold War. This full-color manual is designed to satisfy the content needs of either a one- or two-semester introduction to physical science course populated by nonmajors. It provides students with the opportunity to explore and make sense of the world around them, to develop their skills and knowledge, and to learn to think like scientists. The material is written in an accessible way, providing clearly written procedures, a wide variety of exercises from which instructors can choose, and real-world examples that keep the content engaging. Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts. #1 NEW YORK TIMES BESTSELLER ONE OF BARACK OBAMA'S FAVORITE BOOKS OF THE YEAR NAMED A BEST BOOK OF 2020 BY THE NEW YORK TIMES \* THE WASHINGTON POST \* NPR \* PEOPLE \* TIME MAGAZINE\* VANITY FAIR \* GLAMOUR 2021 WOMEN'S PRIZE FINALIST “Bennett’s tone and style recalls James Baldwin and Jacqueline Woodson, but it’s especially reminiscent of Toni Morrison’s 1970 debut novel, *The Bluest Eye*.” —Kiley Reid, *Wall Street Journal* “A story of absolute, universal timelessness . . . For any era, it's an accomplished, affecting novel. For this moment, it's piercing, subtly wending its way toward questions about who we are and who we want to be . . .” —Entertainment Weekly From The New York Times-bestselling author of *The Mothers*, a stunning new novel about twin sisters, inseparable as children, who ultimately choose to live in two very different worlds, one black and one white. The Vignes twin sisters will always be identical. But after growing up together in a small, southern black community and running away at age sixteen, it's not just the shape of their daily lives that is different as adults, it's everything: their families, their communities, their racial identities. Many years later, one sister lives with her black daughter in the same southern town she once tried to escape. The other secretly passes for white, and her white husband knows nothing of her past. Still, even separated by so many miles and just as many lies, the fates of the twins remain intertwined. What will happen to the next generation, when their own daughters' storylines intersect? Weaving together multiple strands and generations of this family, from the Deep South to California, from the 1950s to the 1990s, Brit Bennett produces a story that is at once a riveting, emotional family story and a brilliant exploration of the American history of passing. Looking well beyond issues of race, *The Vanishing Half* considers the lasting influence of the past as it shapes a person's decisions, desires, and expectations, and explores some of the multiple reasons and realms in which people sometimes feel pulled to live as something other than their origins. As with her New York Times-bestselling debut *The Mothers*, Brit Bennett offers an engrossing page-turner about family and relationships that is immersive and provocative, compassionate and wise. An intricately woven debut psychological mystery and a profound coming of age story for fans of *Made You Up* by Francesca Zappia and *All the Bright Places* by Jennifer Niven. “Introduces a fierce new presence.” —Publishers Weekly (starred review) “5 out of 5 bright, beautiful stars.” —Teenreads.com “A fascinating debut...something original indeed. Readers will absolutely need to know the end of this unique inward-facing mystery.” —ALA Booklist For all of her seventeen years, Molly feels like she’s missed bits and pieces of her life. Her memory is perforated with holes and gaps. But then a horrible accident changes everything. Now she’s starting to remember her own disturbing secrets. And bit by bit, Molly uncovers the separate life she seems to have led—and the love that she can’t let go. In each generation, scientists must redefine their fields: abstracting, simplifying and distilling the previous standard topics to make room for new advances and methods. Sethna's book takes this step for statistical mechanics - a field rooted in physics and chemistry whose ideas and methods are now central to information theory, complexity, and modern biology. Aimed at advanced undergraduates and early graduate students in all of these fields, Sethna limits his main presentation to the

topics that future mathematicians and biologists, as well as physicists and chemists, will find fascinating and central to their work. The amazing breadth of the field is reflected in the author's large supply of carefully crafted exercises, each an introduction to a whole field of study: everything from chaos through information theory to life at the end of the universe. The fascinating, curious, and sometimes macabre history of radium as seen in its uses in everyday life. Of all the radioactive elements discovered at the end of the nineteenth century, it was radium that became the focus of both public fascination and entrepreneurial zeal. *Half Lives* tells the fascinating, curious, sometimes macabre story of the element through its ascendance as a desirable item – a present for a queen, a prize in a treasure hunt, a glow-in-the-dark dance costume – to its role as a supposed cure-all in everyday twentieth-century life, when medical practitioners and business people (reputable and otherwise) devised ingenious ways of commodifying the new wonder element, and enthusiastic customers welcomed their radioactive wares into their homes. Lucy Jane Santos—herself the proud owner of a formidable collection of radium beauty treatments—delves into the stories of these products and details the gradual downfall and discredit of the radium industry through the eyes of the people who bought, sold and eventually came to fear the once-fetishized substance. *Half Lives* is a new history of radium as part of a unique examination of the interplay between science and popular culture. About two centuries from now, the human race on Earth is in trouble, perhaps even facing extinction, because of the rapid evolution of diseases. A crew of young men and women travel to the moons of Saturn, to Titan, to investigate the biochemistry of the pre-life conditions there in the slim hope of discovering something that might save Earth. Nearly half of the crew die on the way. They have to do most of their exploration in virtual-reality machinery. The whole story runs at high speed, as they race to find answers across the surface of an alien landscape with death close behind, and gaining. This is an open textbook covering a two-quarter pre-calculus sequence including trigonometry. The first portion of the book is an investigation of functions, exploring the graphical behavior of, interpretation of, and solutions to problems involving linear, polynomial, rational, exponential, and logarithmic functions. The second portion of the book introduces trigonometry, introduced through an integrated circle/triangle approach. Identities are introduced in the first chapter, and revisited throughout. Likewise, solving is introduced in the second chapter and revisited more extensively in the third chapter. An emphasis is placed on modeling and interpretation, as well as the important characteristics needed in calculus. Move over traditional sightseeing, throngs of visitors, and tourist traps! *Explore Europe on Foot* gives travelers an alternative way to discover Europe. A hiking vacation offers countless rewards: the time to admire the tidiness of a village farm, soak in the rugged alpine view from a rocky perch, and absorb a country through the smells of its landscape and encounters with locals. *Explore Europe on Foot* is a complete guide to conceptualizing, planning, and executing the slow-travel hike (or hikes!) of a lifetime. Author Cassandra Overby tells you how you can spend all, or even just part, of your vacation enjoying scenery, small towns, and cultural experiences most travelers miss—all without carrying a big backpack. This guide offers all the nuts and bolts you need: how to choose a route that is right for you, how to plan, what to pack, what to expect, how to find accommodations and food, how to deal with challenges along the way, and so much more. These aren't wilderness backpacking trips, but rather a wide range of town-to-town walks that offer the opportunity to have an authentic, affordable, restorative vacation. Travelers will also appreciate overviews of fifteen long-distance trails in Belgium, France, Italy, Germany, Great Britain, Morocco, Portugal, Spain, Switzerland, and Turkey, with itineraries that range from one to fifteen days. For those unwilling to go all-in, Cassandra also offers tips on incorporating day-hike outings into a more traditional vacation. The focus is on how to craft that more immersive vacation so users of the guide will be able to apply what they learn to their own dream destinations. 15 Handpicked Walks include: Rota Vicentina, Portugal English Way, Spain Mont Saint-Michel, France Tour du Mont Blanc, France and Italy Cinque Terre 2.0, Italy Lycian Way, Turkey Alpine Pass Route, Switzerland King Ludwig's Way, Germany The Moselle, Germany The Ardennes, Luxembourg and Belgium The Lake District, England, UK West Highland Way, Scotland, UK Laugavegur Trek, Iceland The Sahara Desert, Morocco New insights from the science of science Facts change all the time. Smoking has gone from doctor recommended to deadly. We used to think the Earth was the center of the universe and that the brontosaurus was a real dinosaur. In short, what we know about the world is constantly changing. Samuel Arbesman shows us how knowledge in most fields evolves systematically and predictably, and how this evolution unfolds in a fascinating way that can have a powerful impact on our lives. He takes us through a wide variety of fields, including those that change quickly, over the course of a few years, or over the span of centuries. "Ingenious, sensual, gleeful. . . It demands of its readers only imagination, and rewards them with hilarity, terror, and marvels."—Jonathan Lethem, author of *Motherless Brooklyn* Nora and Blanche are cojoined twins. Nora, the dominant twin, thirsts for love and adventure, while Blanche has been asleep for nearly 30 years. Determined to shed herself of her her sister's dead weight, Nora leaves for London in search of the mysterious Unity Foundation, which promises to make two one. But once Nora arrives in London, the past begins to surface, forcing her into a most reluctant voyage into memory—a search for meaning

and understanding, that will push Nora to the brink of insanity. Grotesque, funny, and dazzlingly told, Shelley Jackson's first novel is an imaginative and touching portrait of two lives in a cleft world yearning for wholeness. Astronomy is a fun and challenging science for students. This manual is intended for one- and two-semester astronomy courses and uses hands-on, engaging activities to get students looking at the sky and developing a lifelong interest in astronomy. The USA Today bestselling author of *In Another Time* reimagines the pioneering, passionate life of Marie Curie using a parallel structure to create two alternative timelines, one that mirrors her real life, one that explores the consequences for Marie and for science if she'd made a different choice. In Poland in 1891, Marie Curie (then Marya Skłodowska) was engaged to a budding mathematician, Kazimierz Zorawski. But when his mother insisted she was too poor and not good enough, he broke off the engagement. A heartbroken Marya left Poland for Paris, where she would attend the Sorbonne to study chemistry and physics. Eventually Marie Curie would go on to change the course of science forever and be the first woman to win a Nobel Prize. But what if she had made a different choice? What if she had stayed in Poland, married Kazimierz at the age of twenty-four, and never attended the Sorbonne or discovered radium? What if she had chosen a life of domesticity with a constant hunger for knowledge in Russian Poland where education for women was restricted, instead of studying science in Paris and meeting Pierre Curie? Entwining Marie Curie's real story with Marya Zorawska's fictional one, *Half Life* explores loves lost and destinies unfulfilled—and probes issues of loyalty and identity, gender and class, motherhood and sisterhood, fame and anonymity, scholarship and knowledge. Through parallel contrasting versions of Marya's life, Jillian Cantor's unique historical novel asks what would have happened if a great scientific mind was denied opportunity and access to education. It examines how the lives of one remarkable woman and the people she loved – as well as the world at large and course of science and history—might have been irrevocably changed in ways both great and small. Provides an extensive and up-to-date overview of the theory and application of computational pharmaceuticals in the drug development process Exploring Computational Pharmaceuticals - AI and Modeling in Pharma 4.0 introduces a variety of current and emerging computational techniques for pharmaceutical research. Bringing together experts from academia, industry, and regulatory agencies, this edited volume also explores the current state, key challenges, and future outlook of computational pharmaceuticals while encouraging development across all sectors of the field. Throughout the text, the authors discuss a wide range of essential topics, from molecular modeling and process simulation to intelligent manufacturing and quantitative pharmacology. Building upon Exploring Computational Pharmaceuticals - AI and Modeling in Pharma 4.0, this new edition provides a multi-scale perspective that reveals the physical, chemical, mathematical, and data-driven details of pre-formulation, formulation, process, and clinical studies, in addition to in vivo prediction in the human body and precision medicine in clinical settings. Detailed chapters address both conventional dosage forms and the application of computational technologies in advanced pharmaceutical research, such as dendrimer-based delivery systems, liposome and lipid membrane research, and inorganic nanoparticles. A major contribution to the development and promotion of computational pharmaceuticals, this important resource: Discusses the development track, achievements, and prospects of computational pharmaceuticals Presents multidisciplinary research to help physicists, chemists, mathematicians, and computer scientists locate problems in the field of drug delivery Covers a wide range of technologies, including complex formulations for water-insoluble drugs, protein/peptide formulations, nanomedicine, and gene delivery systems Focuses on the application of cutting-edge computational technologies and intelligent manufacturing of emerging pharmaceutical technologies Includes a systematic overview of computational pharmaceuticals and Pharma 4.0 to assist non-specialist readers Covering introductory, advanced, and specialist topics, Exploring Computational Pharmaceuticals - AI and Modeling in Pharma 4.0 is an invaluable resource for computational chemists, computational analysts, pharmaceutical chemists, process engineers, process managers, and pharmacologists, as well as computer scientists, medicinal chemists, clinical pharmacists, material scientists, and nanotechnology specialists working in the field. Nellie Y. McKay (1930–2006) was a pivotal figure in contemporary American letters. The author of several books, McKay is best known for coediting the canon-making with Henry Louis Gates Jr., which helped secure a place for the scholarly study of Black writing that had been ignored by white academia. However, there is more to McKay's life and legacy than her literary scholarship. After her passing, new details about McKay's life emerged, surprising everyone who knew her. Why did McKay choose to hide so many details of her past? Shanna Greene Benjamin examines McKay's path through the professoriate to learn about the strategies, sacrifices, and successes of contemporary Black women in the American academy. Benjamin shows that McKay's secrecy was a necessary tactic that a Black, working-class woman had to employ to succeed in the white-dominated space of the American English department. Using extensive archives and personal correspondence, Benjamin brings together McKay's private life and public work to expand how we think about Black literary history and the place of Black women in American culture. Examines how contemporary American working-class literature reveals the long-term effects of deindustrialization on individuals and communities A unique contribution

to the understanding of social science, showing the implications of quantum physics for the nature of human society. A brilliant sliding-doors reimagining of the passionate life of the first woman to win a Nobel Prize – and the life Marie Curie might have led if she had chosen love over science. Poland, 1891. Marie Curie (then Marya Sklodowska) was engaged to a budding mathematician, Kazimierz Zorawski. But when his mother insisted Marya was not good enough, he broke off the engagement. A heartbroken Marya left Poland for Paris to study chemistry and physics at the Sorbonne. Marie would go on to change the course of science forever and become the first woman to win a Nobel Prize. But what if Marie had made a different choice? What if she had stayed in Poland, married Kazimierz, and never attended the Sorbonne or discovered radium? What if Marie had chosen her first love and a life of domesticity, still ravenous for knowledge in Russian Poland where education for women was restricted, instead of studying science in Paris and meeting Pierre Curie? Seamlessly entwining the lives of Marya and Marie, *Half Life* is a powerful story of love and friendship, motherhood and sisterhood, fame and anonymity – and a woman destined to change the world. From wave-cut rock cliffs and sea caves to gravel beaches and coastal dunes, California's coastline has enthralled visitors from around the world. *A Coast to Explore* describes the origins of these coastal features and unravels the wonderful mystery of how the birth of the San Andreas Fault system created what we see today. Miles O. Hayes and Jacqueline Michel have been mapping the coast of California since the 1980s as part of a larger initiative to protect coastlines around the world from hazardous oil spills. *A Coast to Explore* is the culmination of their work. Through a delightful narrative, it details the geological evolution of central California's coast from Bodega Bay to Point Conception, including the effects of erosion during El Niños, the impacts of tsunamis, and the formation of spectacular raised marine terraces. Key ecological resources are described for each of the major subdivisions of the coast. Through richly illustrated diagrams, full-color photographs, and satellite images, *A Coast to Explore* takes readers on a fascinating journey of discovery so they can better understand why the Central California coast is so remarkable. In light of increasing economic and international threats, military operations must be examined with a critical eye in terms of process design, management, improvement, and control. Although the Pentagon and militaries around the world have utilized industrial engineering (IE) concepts to achieve this goal for decades, there has been no single reso

Explorations in College Algebra's overarching goal is to reshape the College Algebra course to make it more relevant and accessible to all students. This is achieved by shifting the focus from learning a set of discrete mechanical rules to exploring how algebra is used in social and physical sciences and the world around you. By connecting mathematics to real-life situations, students come to appreciate its power and beauty. Chemistry 2e is designed to meet the scope and sequence requirements of the two-semester general chemistry course. The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The book also includes a number of innovative features, including interactive exercises and real-world applications, designed to enhance student learning. The second edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Substantial improvements have been made in the figures, illustrations, and example exercises that support the text narrative. Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition. Rapid advances in high-throughput genome sequencing technologies foreshadow a near-future in which millions of individuals will gain affordable access to their complete genome sequence. This promises to offer unprecedented insights into the fundamental biological nature of ourselves and our species: where we came from, how we begin our lives, how we develop and grow, how we interact with our environment, how we get sick, how we get well, and how we age. Personal genomics is an essential component of the inevitable transition towards personalized health and medicine. As the medical establishment begins to explore and evaluate the role of personal genomics in health and medicine, both clinicians and patients alike will gain from becoming well versed in both the power and the pitfalls of personal genomic information. Furthermore, it is likely that all students of the biomedical sciences will soon be required to gain crucial understanding in the emerging field of personal genomics. *Exploring Personal Genomics* provides a novel, inquiry-based approach to the understanding and interpretation of the practical, medical, physiological, and societal aspects of personal genomic information. The material is presented in two parts: the first provides readers of all backgrounds with a fundamental understanding of the biology of human genomes, information on how to obtain and understand digital representations of personal genomic data, tools and techniques for exploring the personal genomics of ancestry and genealogy, discovery and interpretation of genetic trait associations, and the role of personal genomics in drug response. The second part offers more advanced readers an understanding of the science, tools, and techniques for investigating interactions between a personal genome and the environment, connecting DNA to physiology, and assessing rare variants and structural variation. This book aims to support undergraduate and graduate studies in medicine, genetics, molecular biology, and bioinformatics. Additionally, the design of the content is such that medical practitioners, professionals working in the biomedical sciences or

related fields, and motivated lay individuals interested in exploring their personal genetic data should find it relevant and approachable. "A visual exploration of chemistry, atoms, elements, and the universe."-- Modify gameplay, add textures, and integrate amazing effects Develop intense environments, then share your design with players online How cool would it be to build your own levels and customized weapons for Half-Life 2? This book will get you ready to mod so you can enjoy the ultimate gaming experience. You'll find out how to create your own maps, strategically place high-tech military equipment, and modify your levels for smoother play. All this on the bonus CD-ROM Samples from the book A video walk-through of your first mod Adobe(r) Photoshop(r) CS2 tryout version NormalMapGenerator and Compressorator by ATI Technologies, Inc. Packrat version 0.95 for Half-Life 2 and Adobe Photoshop Normal Map and DDS Authoring Plugins For details and complete system requirements, see the CD-ROM appendix. Discover how to Design maps and playing levels Load your creation into the game Expand your map with additions Include armor and weapons Distribute levels on the Web Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Discover the essential thinking tools you've been missing with The Great Mental Models series by Shane Parrish, New York Times bestselling author and the mind behind the acclaimed Farnam Street blog and "The Knowledge Project" podcast. This first book in the series is your guide to learning the crucial thinking tools nobody ever taught you. Time and time again, great thinkers such as Charlie Munger and Warren Buffett have credited their success to mental models--representations of how something works that can scale onto other fields. Mastering a small number of mental models enables you to rapidly grasp new information, identify patterns others miss, and avoid the common mistakes that hold people back. The Great Mental Models: Volume 1, General Thinking Concepts shows you how making a few tiny changes in the way you think can deliver big results. Drawing on examples from history, business, art, and science, this book details nine of the most versatile, all-purpose mental models you can use right away to improve your decision making and productivity. This book will teach you how to: Avoid blind spots when looking at problems. Find non-obvious solutions. Anticipate and achieve desired outcomes. Play to your strengths, avoid your weaknesses, ... and more. The Great Mental Models series demystifies once elusive concepts and illuminates rich knowledge that traditional education overlooks. This series is the most comprehensive and accessible guide on using mental models to better understand our world, solve problems, and gain an advantage. Spacecraft require electrical energy. This energy must be available in the outer reaches of the solar system where sunlight is very faint. It must be available through lunar nights that last for 14 days, through long periods of dark and cold at the higher latitudes on Mars, and in high-radiation fields such as those around Jupiter. Radioisotope power systems (RPSs) are the only available power source that can operate unconstrained in these environments for the long periods of time needed to accomplish many missions, and plutonium-238 ( $^{238}\text{Pu}$ ) is the only practical isotope for fueling them. Plutonium-238 does not occur in nature. The committee does not believe that there is any additional  $^{238}\text{Pu}$  (or any operational  $^{238}\text{Pu}$  production facilities) available anywhere in the world. The total amount of  $^{238}\text{Pu}$  available for NASA is fixed, and essentially all of it is already dedicated to support several pending missions--the Mars Science Laboratory, Discovery 12, the Outer Planets Flagship 1 (OPF 1), and (perhaps) a small number of additional missions with a very small demand for  $^{238}\text{Pu}$ . If the status quo persists, the United States will not be able to provide RPSs for any subsequent missions. "...Mills proves that Faulkner underestimated a poet's ability to manage enormous shifts of scale...Haunted by the unverified possibility of her fighter-pilot grandfather's 'involvement in the Nagasaki mission, ' Mills scans skies for contrails, scrutinizes negatives, reads survivors' accounts, and sifts through white sands...Mills has written a book for the long nuclear century." - Publishers Weekly, Starred Review Hawk Parable begins with a family mystery and engages with the limits of historical knowledge--particularly of the atomic bombs the U.S. dropped at the end of the Second World War and the repercussions of atomic tests the U.S. conducted throughout the 20th century. These poems explore a space between environmental crisis and a crisis of conscience. As a lyric collection, Hawk Parable begins as a meditation on the author's grandfather's possible involvement in the Nagasaki mission and moves through poems that engage with the legacy of nuclear testing on our global environment. At times, Hawk Parable borrows language from declassified nuclear test films, survivor accounts of the Hiroshima and Nagasaki bombings, scientific studies of bird migrations through the Nevada Test Site, and the author's grandfather's letters. This book enacts what it means to encounter fragments--of historical records, family stories, and survivor accounts--through exploring a variety of forms. Hawk Parable seeks what it means to be human in the spaces between tragedy and beauty, loss and life, in the relationships between the lyric speaker, history, and personal memory. SIMMS IM curriculum is designed to replace all secondary mathematics courses, with the possible exception of advanced placement courses. Each level includes work in algebra, geometry, probability, statistics, data analysis and discrete mathematics. Other topics such as trigonometry, matrices, conics, vectors, logic, logarithms, and parametric equations are included at appropriate levels. Less traditional topics such as graph theory, game theory, and chaos theory are also included in the program. This book addresses the issue of de-spiritualization in education through an interdisciplinary

lens. It draws on curriculum scholarship of Dwayne Huebner, Martin Heidegger's interpretation of Plato's allegory of the cave, Buddhism, theories and philosophies of quantum physics, and philosophical hermeneutics, among others. In doing so, the author identifies the relationship between spiritual truth and education and probes the nature of consciousness, self, and reality. On this basis, she works to explore curriculum as an experience of consciousness transformation vital to the essence and purpose of education and argues for reason with faith and faith with reason as well as the imperative of curriculum imbued with spiritual wisdom and lived experiences. When Cookie Figowitz, the cook for a party of volatile fur trappers trekking through the Oregon Territory in the 1820s, joins up with the refugee Henry Brown, the two begin a wild ride that takes them from the virgin territory of the West all the way to China and back again. One hundred and sixty years later, Tina Plank, an unhappy teenager, meets Trixie, a girl with a troubled past, and the two become fast friends. But when two skeletons are accidentally unearthed from their common ground, the lives of Tina and Trixie, Cookie and Henry are brought together in unexpected and startling ways. Jonathan Raymond attended Swarthmore College. He was an editor at Plazm magazine and received his M.F.A. from New School University. He currently lives in Brooklyn, New York. "A marvelous novel...a mystery as rich as the history of the Oregon territory itself."-Vanity Fair "Raymond nimbly interweaves these parallel tales and manages to surprise...[a] subtle portrait of friendship and loss...[from] an astute, patient observer."-Entertainment Weekly "Raymond's debut novel teems with carefully researched period details, intrigue...yet it never feels overstuffed."-Washington Post "With The Half-Life, [Raymond] has come home prospecting for literary gold ...Oregon has given him something back."-San Francisco Chronicle "Quietly stunning...Raymond is a kind of stealth bomber of the epic."-Newsday "Terrific...The Half-Life gazes upon those fierce but ephemeral attachments that evade the history books. Multiple plots elegantly veer across the sprawling terrain."-Village Voice "This book presents the latest research, case studies, best practices, and methodologies within the field of IT project management, offering research from top experts around the world in a variety of IT project management applications and job sectors"-- Provided by publisher. An autobiography by Swanee Hunt, daughter of the legendary oil magnate H. L. Hunt, Bill Clinton's Ambassador to Austria, and internationally renowned philanthropist.

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