

The Los Alamos Primer The First Lectures On How To Build An Atomic Bomb Updated With A New Introduction By Richard Rhodes

Second Front Nuclear Safeguards, Security, and Nonproliferation The Making of the Atomic Bomb Critical Assembly The Physics of the Manhattan Project The Bloody Flag Gender Queer Cocaine Politics Beyond the Atom The Physics of the Manhattan Project Deep Politics and the Death of JFK Bomb Polonium in the Playhouse Trinity: A Graphic History of the First Atomic Bomb The Road from Los Alamos Racing for the Bomb The Los Alamos Primer Markov Chain Monte Carlo Methods in Quantum Field Theories Weapons of Mass Destruction The Wives of Los Alamos The Los Alamos Primer The Nuclear Muse Beheld The Effects of Nuclear Weapons Essays in Nuclear Astrophysics Los Alamos Empire and Liberty Peace & War Bombing the Marshall Islands Particle Physics The Manhattan Project Atomic Bomb: The Story of the Manhattan Project Fundamentals of Materials for Energy and Environmental Sustainability Building the H Bomb The Los Alamos Primer A Primer on Integral Equations of the First Kind Arsenals of Folly Atomic Energy for Military Purposes The Elusive Neutrino Dark Sun

Second Front

More than seventy years ago, the world changed forever when American forces exploded the first atomic bomb over the Japanese city of Hiroshima on August 6, 1945, starting a massive firestorm that would kill some 80,000 enemy civilians. Three days later, the US exploded a second bomb over Nagasaki, killing another 40,000. Though the bombs did not end the war, they contributed urgently to the Japanese decision to surrender and demonstrated to the world the vast destructive power of a revolutionary new weapon. "Little Boy" and "Fat Man" originated in March 1943 when a group of young scientists, sequestered on a mesa near Santa Fe, attended a crash course in the new weapons technology. The lecturer was physicist Robert Serber, J. Robert Oppenheimer's protégé, and they learned that their job was to design and build the world's first atomic bombs. Notes on Serber's lecture, nicknamed the "Los Alamos Primer," were mimeographed and passed from hand to hand. They remained classified for decades after the war. Published for the first time in 1992, the Primer offers contemporary readers a better understanding of the origins of nuclear weapons. Serber's preface, an informal memoir, vividly conveys the mingled excitement, uncertainty, and intensity felt by the Manhattan Project scientists. Now, 75 years since the bombs shocked the world, an updated foreword by Pulitzer Prize-winning historian Richard Rhodes offers a brief history of the development of nuclear physics up to the day when Serber stood before his blackboard at Los Alamos. A seminal publication on a turning point in human history, The Los Alamos Primer reveals

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just how much was known and how terrifyingly much was unknown midway through the Manhattan Project. No other seminar anywhere has had greater historical consequences.

Nuclear Safeguards, Security, and Nonproliferation

The development of nuclear weapons by the Manhattan Project during World War II was one of the most dramatic scientific/technological episodes in human history. This book, prepared by a recognized expert on the Manhattan Project, offers a concise survey of the essential physics concepts underlying fission weapons. The text describes the energetics and timescales of fast-neutron chain reactions, why only certain isotopes of uranium and plutonium are suitable for use in fission weapons, how critical mass and bomb yield can be estimated, how the efficiency of nuclear weapons can be enhanced, how the fissile forms of uranium and plutonium were obtained, some of the design details of the 'Little Boy' and 'Fat Man' bombs, and some of the thermal, shock, and radiation effects of nuclear weapons. Calculation exercises are provided, and a Bibliography lists authoritative print and online sources of information for readers who wish to pursue more detailed study of this fascinating topic.

The Making of the Atomic Bomb

This primer is a comprehensive collection of analytical and numerical techniques that can be used to extract the non-perturbative physics of quantum field theories. The intriguing connection between Euclidean Quantum Field Theories (QFTs) and statistical mechanics can be used to apply Markov Chain Monte Carlo (MCMC) methods to investigate strongly coupled QFTs. The overwhelming amount of reliable results coming from the field of lattice quantum chromodynamics stands out as an excellent example of MCMC methods in action. MCMC methods have revealed the non-perturbative phase structures, symmetry breaking, and bound states of particles in QFTs. The applications also resulted in new outcomes due to cross-fertilization with research areas such as AdS/CFT correspondence in string theory and condensed matter physics. The book is aimed at advanced undergraduate students and graduate students in physics and applied mathematics, and researchers in MCMC simulations and QFTs. At the end of this book the reader will be able to apply the techniques learned to produce more independent and novel research in the field.

Critical Assembly

The Physics of the Manhattan Project

In September 1942, Colonel Leslie R. Groves was given the job of building the atomic bomb. As a career officer in the Army Corps of Engineers, Groves had overseen hundreds of military construction projects, including the Pentagon. Until now, scientists have received the credit for the Manhattan Project's remarkable achievements. And yet, it was Leslie R. Groves who made things happen. It was Groves who drove manufacturers, construction crews, scientists, industrialists, and military and civilian officials to come up with the money, the materials, and the plans to solve thousands of problems and build the bomb in only two years. It was his operation, and in *Racing for the Bomb* he emerges as a take-charge, can-do figure who succeeds in the face of formidable odds. Revealed for the first time in *Racing for the Bomb*, Groves played a crucial and decisive role in the planning, timing, and targeting of the Hiroshima and Nagasaki missions. Norris offers new insights into the complex and controversial questions surrounding the decision to drop the bomb in Japan and Groves's actions during World War II, which had a lasting imprint on the nuclear age and the Cold War that followed. Groves's extensive influence on key institutions of postwar America has been overlooked for too long. In this full-scale biography, which includes archival material and family letters and documents and features several previously unpublished photographs, Norris places Groves at the center of the amazing Manhattan Project story. Skyhorse Publishing, along with our Arcade, Good Books, Sports Publishing, and Yucca imprints, is proud to publish a broad range of biographies, autobiographies, and memoirs. Our list includes biographies on well-known historical figures like Benjamin Franklin, Nelson Mandela, and Alexander Graham Bell, as well as villains from history, such as Heinrich Himmler, John Wayne Gacy, and O. J. Simpson. We have also published survivor stories of World War II, memoirs about overcoming adversity, first-hand tales of adventure, and much more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home.

The Bloody Flag

Nuclear Safeguards, Security and Nonproliferation, Second Edition, is a comprehensive reference that covers cutting-edge technologies used to trace, track, and safeguard nuclear material. The book is divided into 3 sections and includes chapters on such topics as the security of nuclear facilities and material, the illicit trafficking of nuclear materials, improvised nuclear devices, how to prevent nuclear terrorism. International case studies of security at nuclear facilities and illegal nuclear

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trade activities provide specific examples of the complex issues surrounding the technology and policy for nuclear material protection, control and accountability. New case studies include analysis of the timely issues in the nuclear programs of countries such as North Korea, Iran, and Kazakhstan among others. This is a thoroughly updated must-have volume for private and public organizations involved in driving national security, domestic, and international policy issues relating to nuclear material security, non-proliferation, and nuclear transparency. Covers the continuing efforts to reduce the size of nuclear arsenals Highlights the challenges of verifying nuclear weapons reduction Summarizes the issues from the 2015 Nonproliferation Treaty Review Conference Illuminates the evolving status of nonproliferation and safeguards in Iran and DPRK

GenderQueer

At the height of the race to build an atomic bomb, an indoor tennis court in one of the Midwest's most affluent residential neighborhoods became a secret Manhattan Project laboratory. Polonium in the Playhouse: The Manhattan Project's Secret Chemistry Work in Dayton, Ohio presents the intriguing story of how this most unlikely site in Dayton, Ohio, became one of the most classified portions of the Manhattan Project. Seized by the War Department in 1944 for the bomb project, the Runnymede Playhouse was transformed into a polonium processing facility, providing a critical radioactive ingredient for the bomb initiator--the mechanism that triggered a chain reaction. With the help of a Soviet spy working undercover at the site, it was also key to the Soviet Union's atomic bomb program. The work was directed by industrial chemist Charles Allen Thomas who had been chosen by J. Robert Oppenheimer and General Leslie Groves to coordinate Manhattan Project chemistry and metallurgy. As one of the nation's first science administrators, Thomas was responsible for choreographing the plutonium work at Los Alamos and the Project's key laboratories. The elegant glass-roofed building belonged to his wife's family. Weaving Manhattan Project history with the life and work of the scientist, industrial leader and singing-showman Thomas, Polonium in the Playhouse offers a fascinating look at the vast and complicated program that changed world history and introduces the men and women who raced against time to build the initiator for the bomb.

Cocaine Politics

John Canaday analyzes a variety of texts produced by physicists before, during, and after the Second World War, including Niels Bohr's "The Quantum Postulate"; the Blegdamsvej Faust, a parody of Goethe's

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Faust that cast physicists as its principle characters; The Los Alamos Primer, the technical lectures used for training at Los Alamos; scientists' descriptions of their work and of the Trinity test; and Leo Szilard's post-war novella, The Voice of the Dolphins.

Beyond the Atom

This book explains the emergence of a profoundly new understanding of the fundamental forces of Nature.

The Physics of the Manhattan Project

Their average age was twenty-five. They came from Berkeley, Cambridge, Paris, London and Chicago - and arrived in New Mexico ready for adventure or at least resigned to it. But hope quickly turned to hardship in the desolate military town where everything was a secret, including what their husbands were doing at the lab. They lived in barely finished houses with a P.O. Box for an address, in a town wretched with barbed wire, all for the benefit of 'the project' that didn't exist as far as the greater world was concerned. They were constrained by the words they couldn't say out loud, the letters they couldn't send home, the freedom they didn't have. Though they were strangers, they joined together - babies were born, friendships were forged, children grew up. But then 'the project' was unleashed and even bigger challenges faced the women of Los Alamos, as they struggled with the burden of their contribution towards the creation of the most destructive force in mankind's history - the atomic bomb. Contentious, gripping and intimate, The Wives of Los Alamos is a personal tale of one of the most momentous events in our history.

Deep Politics and the Death of JFK

Bomb

Most Anticipated Books of 2020 - Vogue, Medium, LitHub From the bestselling author of The Wives of Los Alamos comes the riveting story of a stranger's arrival in the fledgling colony of Plymouth, Massachusetts-and a crime that shakes the divided community to its core. Ten years after the Mayflower pilgrims arrived on rocky, unfamiliar soil, Plymouth is not the land its residents had imagined. Seemingly established on a dream of religious freedom, in reality the town is led by fervent puritans

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who prohibit the residents from living, trading, and worshipping as they choose. By the time an unfamiliar ship, bearing new colonists, appears on the horizon one summer morning, Anglican outsiders have had enough. With gripping, immersive details and exquisite prose, TaraShea Nesbit reframes the story of the pilgrims in the previously unheard voices of two women of very different status and means. She evokes a vivid, ominous Plymouth, populated by famous and unknown characters alike, each with conflicting desires and questionable behavior. Suspenseful and beautifully wrought, Beheld is about a murder and a trial, and the motivations—personal and political—that cause people to act in unsavory ways. It is also an intimate portrait of love, motherhood, and friendship that asks: Whose stories get told over time, who gets believed—and subsequently, who gets punished?

Polonium in the Playhouse

Designed to offer applied mathematicians, physicists, chemists, engineers, geophysicists, an elementary level explanation of integral equations of the first kind.

Trinity: A Graphic History of the First Atomic Bomb

Empire and Liberty brings together two epic subjects in American history: the story of the struggle to end slavery that reached a violent climax in the Civil War, and the story of the westward expansion of the United States. Virginia Scharff and the contributors to this volume show how the West shaped the conflict over slavery and how slavery shaped the West, in the process defining American ideals about freedom and influencing battles over race, property, and citizenship. This innovative work embraces East and West, as well as North and South, as the United States observes the 2015 sesquicentennial commemoration of the end of the Civil War. A companion volume to an Autry National Center exhibition on the Civil War and the West, Empire and Liberty brings leading historians together to examine artifacts, objects, and artworks that illuminate this period of national expansion, conflict, and renewal.

The Road from Los Alamos

Racing for the Bomb

The development of nuclear weapons during the Manhattan Project is one of the most significant

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scientific events of the twentieth century. This book, prepared by a gifted teacher of physics, explores the challenges that faced the members of the Manhattan project. In doing so it gives a clear introduction to fission weapons at the level of an upper-level undergraduate physics student. Details of nuclear reactions, their energy release, the fission process, how critical masses can be estimated, how fissile materials are produced, and what factors complicate bomb design are covered. An extensive list of references and a number of problems for self-study are included. Links are given to several spreadsheets with which users can run many of the calculations for themselves.

The Los Alamos Primer

NEW YORK TIMES BESTSELLER • "The suspense novel for all others to beat . . . [a] must read."—The Denver Post WINNER OF THE EDGAR AWARD FOR BEST FIRST NOVEL It is the spring of 1945, and in a dusty, remote community, the world's most brilliant minds have come together in secret. Their mission: to split an atom and end a war. But among those who have come to Robert Oppenheimer's "enchanted campus" of foreign-born scientists, baffled guards, and restless wives is a simple man in search of a killer. Michael Connolly has been sent to the middle of nowhere to investigate the murder of a security officer on the Manhattan Project. But amid the glimmering cocktail parties and the staggering genius, Connolly will find more than he bargained for. Sleeping in a dead man's bed and making love to another man's wife, Connolly has entered the moral no-man's-land of Los Alamos. For in this place of brilliance and discovery, hope and horror, Connolly is plunged into a shadowy war with a killer—as the world is about to be changed forever. Praise for Los Alamos "A magnificent work of fiction . . . a love story inside a murder mystery inside perhaps the most significant story of the twentieth century: the making of the atomic bomb."—The Boston Globe "Compelling . . . [Joseph Kanon] pulls the reader into a historical drama of excitement and high moral seriousness." —The New York Times "Thrilling . . . Kanon writes with the sure hand of a veteran and does a marvelous job."—The Washington Post Book World

Markov Chain Monte Carlo Methods in Quantum Field Theories

A narrative history of the nuclear tests conducted by the United States in the Marshall Islands from 1946 to 1958.

Weapons of Mass Destruction

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Meticulously documented investigation uncovering the political secrets surrounding John F. Kennedy's assassination.

The Wives of Los Alamos

Originally published in 1982, this collection of essays provides an integrated overview of the application of nuclear science to astronomy. The book discusses, among other topics, the abundances of the nuclear and chemical species on the Earth and the Moon, in meteorites, in the stars, and in interstellar space. The hypothesis that these species are produced by nuclear reactions is then explored and related to laboratory measurements. Other subjects include the dynamics of supernovae and interdisciplinary relationships between elementary particle physics and cosmology. The essays are dedicated to Professor William A. Fowler and pay tribute to his vast influence on the field.

The Los Alamos Primer

Derek is a girl. He wasn't one of the boys as a kid. He admired, befriended, and socialized with the girls and always knew he was one of them, despite being male. That wasn't always accepted or understood, but he didn't care—he knew who he was. Now he's a teenager and boys and girls are flirting and dating and his identity has become a lot more complicated: he's attracted to the girls. The other girls. The female ones. This is Derek's story, the story of a different kind of male hero—a genderqueer person's tale. It follows Derek from his debut as an eighth grader in Los Alamos, New Mexico until his unorthodox coming out at the age of twenty-one on the University of New Mexico campus in Albuquerque. This century's first decade saw many LGBT centers and services rebranding themselves as LGBTQ. The "Q" in LGBTQ is a new addition. It represents other forms of "queer" in an inclusive wave-of-the-hand toward folks claiming to vary from conventional gender and orientation, such as genderqueer people. People who are affirmatively tolerant on gay, lesbian and transgender issues still ask "Why do we need to add another letter to the acronym? Isn't anyone who isn't mainstream already covered by 'gay' or 'lesbian' or 'bisexual' or 'trans'? I'm all in favor of people having the right to call themselves whatever they want, but seriously, do we need this term?" Derek's tale testifies to the real-life relevance of that "Q." This is a genderqueer coming-of-age and coming-out story from an era long before genderqueer was trending.

The Nuclear Muse

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In August 1945, two US Army Air Force B-29 bombers each dropped single "atomic bombs" on the Japanese cities of Hiroshima and Nagasaki. Little Boy and Fat Man each exploded with energies equivalent to more than 10,000 tons of conventional explosive. Just seven years later, in October 1952, the Ivy Mike test saw the detonation of America's first full-scale thermonuclear weapon that achieved a yield over 400 times as much as Little Boy and Fat Man. The invention of nuclear weapons was one of the most stunning scientific and technological developments of the 20th century. Carried out under the auspices of the United States Army's Manhattan Project, this development had profound immediate and long-term impacts: the bombings of Hiroshima and Nagasaki helped bring World War II to a close, but set the stage for the Cold War, nuclear proliferation, and fear of nuclear annihilation and terrorism. This volume, prepared by an acknowledged expert on the Manhattan Project, gives a concise, fast-paced account of all major aspects of the project at a level accessible to an undergraduate college or advanced high-school student familiar with some basic concepts of energy, atomic structure, and isotopes. The text describes the underlying scientific discoveries that made nuclear weapons possible, how the project was organized, the daunting challenges faced and overcome in obtaining fissile uranium and plutonium and in designing workable bombs, the dramatic Trinity test carried out in the desert of southern New Mexico in July 1945, and the bombings of Hiroshima and Nagasaki. The final chapter surveys current worldwide nuclear weapons deployments, and a bibliography lists sources of published and online information along with numerous links.

Beheld

Discusses the author's experiences with Oppenheimer at Los Alamos

The Effects of Nuclear Weapons

The development of nuclear weapons during the Manhattan Project is one of the most significant scientific events of the twentieth century. This revised and updated 3rd edition explores the challenges that faced the scientists and engineers of the Manhattan Project. It gives a clear introduction to fission weapons at the level of an upper-year undergraduate physics student by examining the details of nuclear reactions, their energy release, analytic and numerical models of the fission process, how critical masses can be estimated, how fissile materials are produced, and what factors complicate bomb design. An extensive list of references and a number of exercises for self-study are included. Links are given to several freely-available spread sheets which users can use to run many of the calculations for

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themselves.

Essays in Nuclear Astrophysics

More than seventy years ago, American forces exploded the first atomic bombs over the Japanese cities of Hiroshima and Nagasaki, causing great physical and human destruction. The young scientists at Los Alamos who developed the bombs, which were nicknamed Little Boy and Fat Man, were introduced to the basic principles and goals of the project in March 1943, at a crash course in new weapons technology. The lecturer was physicist Robert Serber, J. Robert Oppenheimer's protégé, and the scientists learned that their job was to design and build the world's first atomic bombs. Notes on Serber's lectures were gathered into a mimeographed document titled *The Los Alamos Primer*, which was supplied to all incoming scientific staff. The Primer remained classified for decades after the war. Published for the first time in 1992, the Primer offers contemporary readers a better understanding of the origins of nuclear weapons. Serber's preface vividly conveys the mingled excitement, uncertainty, and intensity felt by the Manhattan Project scientists. This edition includes an updated introduction by Pulitzer Prize-winning historian Richard Rhodes. A seminal publication on a turning point in human history, *The Los Alamos Primer* reveals just how much was known and how terrifyingly much was unknown midway through the Manhattan Project. No other seminar anywhere has had greater historical consequences.

Los Alamos

Mutiny tore like wildfire through the wooden warships of the age of revolution. While commoners across Europe laid siege to the nobility and enslaved workers put the torch to plantation islands, out on the oceans, naval seamen by the tens of thousands turned their guns on the quarterdeck and overthrew the absolute rule of captains. By the early 1800s, anywhere between one-third and one-half of all naval seamen serving in the North Atlantic had participated in at least one mutiny, many of them in several, and some even on ships in different navies. In *The Bloody Flag*, historian Niklas Frykman explores in vivid prose how a decade of violent conflict onboard gave birth to a distinct form of radical politics that brought together the egalitarian culture of North Atlantic maritime communities with the revolutionary era's constitutional republicanism. The attempt to build a radical maritime republic failed, but the red flag that flew from the masts of mutinous ships survived to become the most enduring global symbol of class struggle, economic justice, and republican liberty to this day.

Empire and Liberty

How will we meet rising energy demands? What are our options? Are there viable long-term solutions for the future? Learn the fundamental physical, chemical and materials science at the heart of: • Renewable/non-renewable energy sources • Future transportation systems • Energy efficiency • Energy storage Whether you are a student taking an energy course or a newcomer to the field, this textbook will help you understand critical relationships between the environment, energy and sustainability. Leading experts provide comprehensive coverage of each topic, bringing together diverse subject matter by integrating theory with engaging insights. Each chapter includes helpful features to aid understanding, including a historical overview to provide context, suggested further reading and questions for discussion. Every subject is beautifully illustrated and brought to life with full color images and color-coded sections for easy browsing, making this a complete educational package. Fundamentals of Materials for Energy and Environmental Sustainability will enable today's scientists and educate future generations.

Peace & War

As the head of the theory group at Los Alamos, Hans A. Bethe played a

Bombing the Marshall Islands

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.

Particle Physics

Serber has annotated the lectures he gave to those joining the scientific elite in the wilderness of Los Alamos, NM in 1943. This is LA-1, the Los Alamos primer, here published for the first time. Edited and introduced by Richard Rhodes (The Making of the atomic bomb). All history of science collections must add this central document. Accessible to the lay reader. Annotation copyrighted by Book News, Inc., Portland, OR

The Manhattan Project

Here, for the first time, in a brilliant, panoramic portrait by the Pulitzer Prize-winning author of *The Making of the Atomic Bomb*, is the definitive, often shocking story of the politics and the science behind the development of the hydrogen bomb and the birth of the Cold War. Based on secret files in the United States and the former Soviet Union, this monumental work of history discloses how and why the United States decided to create the bomb that would dominate world politics for more than forty years.

Atomic Bomb: The Story of the Manhattan Project

This 1993 book explores how the 'critical assembly' of scientists at Los Alamos created the first atomic bombs.

Fundamentals of Materials for Energy and Environmental Sustainability

The Pulitzer Prize-winning author of *The Making of the Atomic Bomb* narrates the story of the postwar superpower arms race that culminated in the Reagan-Gorbachev era when the U.S. and Soviet Union came all too close to nuclear war, chronicling the nuclear policies on both sides following World War II and their implications for global peace and security. Reprint. 20,000 first printing.

Building the H Bomb

IN THE NEWS Podcast – Building the H Bomb: A Personal History Hosted by Milt Rosenberg (1590 WCGO), 25 June 2015 Building the H-Bomb: The Big Idea APS News, June 2015 (Volume 24, Number 6) Behind the Making of a Super Bomb The Washington Post, 22 May 2015 Hydrogen Bomb Physicist's Book Runs Afoul of Energy Department The New York Times, 23 March 2015 More In this engaging scientific memoir, Kenneth Ford recounts the time when, in his mid-twenties, he was a member of the team that designed and built the first hydrogen bomb. He worked with – and relaxed with – scientific giants of that time such as Edward Teller, Enrico Fermi, Stan Ulam, John von Neumann, and John Wheeler, and here offers illuminating insights into the personalities, the strengths, and the quirks of these men. Well known for his ability to explain physics to nonspecialists, Ford also brings to life the physics of fission and fusion and provides a brief history of nuclear science from the discovery of radioactivity in 1896 to the ten-megaton explosion of "Mike" that obliterated a Pacific Island in 1952. Ford worked at both Los Alamos

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and Princeton's Project Matterhorn, and brings out Matterhorn's major, but previously unheralded contribution to the development of the H bomb. Outside the lab, he drove a battered Chevrolet around New Mexico, a bantam motorcycle across the country, and a British roadster around New Jersey. Part of the charm of Ford's book is the way in which he leavens his well-researched descriptions of the scientific work with brief tales of his life away from weapons. Contents: The Big Idea The Protagonists The Choice The Scientists, the Officials, and the President Nuclear Energy Some Physics Going West A New World The Classical Super Calculating and Testing Constructing Matterhorn Academia Cowers New Mexico, New York, and New Jersey The Garwin Design Climbing Matterhorn More Than a Boy Readership: A memoir for general readership in the history of science. Key Features: It contains real physics, clearly presented for non-specialists Combining historical scholarship and his own recollections, the author offers important insights into the people and the work that led to the first H bomb Personal anecdotes enliven the book Keywords: Nuclear Weapons; Atomic Weapons; H Bomb; Thermonuclear Weapons; Nuclear Physics; Nuclear History; Thermonuclear History; Los Alamos; Edward Teller; Stanislaw Ulam; John Wheeler; Project Matterhorn Reviews: "It was a great treat to read a book that's well-written, informative, and gets the science right. It is these personal recollections and descriptions; the fact that it is a personal and first-hand account of a unique time in history and a remarkable scientific and technical achievement that made this book so enthralling. This is an engaging account of a young scientist involved in a remarkable project." P Andrew Karam The Ohio State University "Ford's book is a valuable resource for anyone interested in the history of the H bomb and its role in the Cold War, and in how that work affected the life and career of an individual involved." Physics Today "Personal memories are the book's greatest strength. Ford doesn't glorify, or apologize for, his work on the H-bomb. He simply tells it as it was. As a result, this is an engagingly human glimpse into the world of physics in the US in the early 1950s." Physics World

The Los Alamos Primer

"Tells the sordid story of how elements of our own government went to work with narcotics traffickers, and then fought to suppress the truth about what they had done."—Jonathan Winer, Counsel, Kerry Subcommittee on Terrorism and Narcotics

A Primer on Integral Equations of the First Kind

John R. MacArthur -- who is the publisher of Harper's Magazine -- examines the government's assault on

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the constitutional freedoms of the U.S. media during the 1991 gulf war. With a new preface.

Arsenals of Folly

Atomic Energy for Military Purposes

"The Nuclear Age properly began with the discovery of the nucleus by Ernest Rutherford in 1911, but its impact on civilization began with the use of atomic bombs against Japan in WWII. The development of atomic bombs forever changed the world. From having a single bomb immediately after the Nagasaki attack, the United States would go on to build some 70,000 nuclear bombs over the course of the Cold War. The colossal brinkmanship with the Soviet Union threatened each country's people. Why were so many bombs thought to be necessary? How did the infrastructure come about to enable the delicate business of building and deploying so many bombs? This book answers these questions and more; through high quality photographs the full flowering of the warheads and delivery systems of the nuclear age are shown in chilling detail."--Book jacket.

The Elusive Neutrino

Dark Sun

In December of 1938, a chemist in a German laboratory made a shocking discovery: When placed next to radioactive material, a Uranium atom split in two. That simple discovery launched a scientific race that spanned 3 continents. In Great Britain and the United States, Soviet spies worked their way into the scientific community; in Norway, a commando force slipped behind enemy lines to attack German heavy-water manufacturing; and deep in the desert, one brilliant group of scientists was hidden away at a remote site at Los Alamos. This is the story of the plotting, the risk-taking, the deceit, and genius that created the world's most formidable weapon. This is the story of the atomic bomb. Bomb is a 2012 National Book Awards finalist for Young People's Literature. Bomb is a 2012 Washington Post Best Kids Books of the Year title. Bomb is a 2013 Newbery Honor book.

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