

## The Making Of The Atomic Bomb

After learning of atomic physics, H. G. Wells began to think of its potential impact on human society. In *The World Set Free*, atomic energy causes massive unemployment, shaking the already fragile social order. The ambitious powers of the world decide to seize the opportunity to compete for dominance, and a world war breaks out, echoing the looming Great War about to ignite in 1914. Waking to the catastrophe, humanity begins the hard search for a way into a better future. The novel traces a soldier, an ex-king, a despot, and a sage through a profound transformation of human society, and we gain a window into Wells' own thoughts and hopes along the way. With one prophetic stroke, Wells gives the first detailed depiction of atomic energy and its potential destructive power, and predicts the use of the air power in modern warfare. He may have even directly influenced the development of nuclear weapons, as the physicist Leó Szilárd, shortly after reading the novel in 1932, then conceived of harnessing the neutron chain reaction critical to the development of the atom bomb. This book is part of the Standard Ebooks project, which produces free public domain ebooks.

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

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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-

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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 Manhattan Projectthe World War II race to produce an atomic bombtransformed the entire country in myriad ways, but it did not affect each region equally. Acting on an enduring perception of the American West as an empty place, the U.S. government located a disproportionate number of nuclear facilitiesparticularly the ones most likely to spread pollutionin western states. The Manhattan Project manufactured plutonium at Hanford, Washington; designed and assembled bombs at Los Alamos, New Mexico; and detonated the worlds first atomic bomb at Alamogordo, New Mexico, on June 16, 1945. In the years that followed the war, the U.S. Atomic Energy Commission selected additional western sites for its work. Many westerners initially welcomed the atom. Like federal officials, they, too, regarded their region as empty, or underdeveloped.

Facilities to make, test, and base atomic weapons, sites to store nuclear waste, and even nuclear power plants were regarded as assets. By the 1960s and 1970s, however, regional attitudes began to change. At a variety of locales, ranging from Eskimo Alaska to Mormon Utah, westerners devoted themselves to resisting the atom and its effects on their environments and communities. Just as the atomic age had dawned in the American West, so its artificial sun began to set there. The Atomic West

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brings together contributions from several disciplines to explore the impact on the West of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s. An impressive example of the benefits of interdisciplinary studies on complex topics, *The Atomic West* advances our understanding of both regional history and the history of science, and does so with human communities as a significant focal point. The book will be of special interest to students and experts on the American West, environmental history, and the history of science and technology.

The ramifications of the Manhattan Project are still with us to this day. The atomic bombs that came out of it brought an end to the war in the Pacific, but at a heavy loss of life in Japan and the opening of a Pandora's box that has tested international relations. This book traces the history of the Manhattan Project, from the first glimmerings of the possibility of such a catastrophic weapon to the aftermath of the bombings of Hiroshima and Nagasaki. It profiles the architects of the bomb and how they tried to reconcile their personal feelings with their ambition as scientists. It looks at the role of the politicians and it includes first-hand accounts of those who experienced the effects of the bombings.

Providing an understanding of the relationship with death, both as an individual and as a member of society. This book is intended to contribute to your understanding of your relationship with death, both as an individual and as a member of society. Kastenbaum

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shows how individual and societal attitudes influence both how and when we die and how we live and deal with the knowledge of death and loss. Robert Kastenbaum is a renowned scholar who developed one of the world's first death education courses and introduced the first text for this market. This landmark text draws on contributions from the social and behavioral sciences as well as the humanities, such as history, religion, philosophy, literature, and the arts, to provide thorough coverage of understanding death and the dying process. Learning Goals Upon completing this book, readers should be able to: -Understand the relationship with death, both as an individual and as a member of society -See how social forces and events affect the length of our lives, how we grieve, and how we die -Learn how dying people are perceived and treated in our society and what can be done to provide the best possible care -Master an understanding of continuing developments and challenges to hospice (palliative care). -Understand what is becoming of faith and doubt about an afterlife

On the seventy-fifth anniversary of the first atomic bomb, discover new reflections on the Manhattan Project from President Barack Obama, hibakusha (survivors), and the modern-day mayors of Hiroshima and Nagasaki. The creation of the atomic bomb during World War II, codenamed the Manhattan Project, was one of the most significant and clandestine scientific undertakings of the 20th century. It forever changed the nature of war and cast a shadow over civilization. Born out of a small research program that began in 1939, the Manhattan Project would eventually employ nearly 600,000

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people and cost about \$2 billion (\$28.5 billion in 2020) -- all while operating under a shroud of complete secrecy. On the 75th anniversary of this profoundly crucial moment in history, this newest edition of *The Manhattan Project* is updated with writings and reflections from the past decade and a half. This groundbreaking collection of essays, articles, documents, and excerpts from histories, biographies, plays, novels, letters, and oral histories remains the most comprehensive collection of primary source material of the atomic bomb.

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.

This book, written with unique access to official archives, tells the secret story of Britain's H-bomb - the scientific and strategic background, the government's policy decision, the work of the remarkable men who created the bomb, the four weapon trials at a remote Pacific atoll in 1957-58, and the historic consequences.

A “meticulously researched” (*The New York Times Book Review*) examination of energy transitions over time and an exploration of the current challenges presented by global warming, a surging world population, and renewable energy—from Pulitzer Prize- and National Book Award-winning author Richard Rhodes. People have lived and died,

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businesses have prospered and failed, and nations have risen to world power and declined, all over energy challenges. Through an unforgettable cast of characters, Pulitzer Prize-winning author Richard Rhodes explains how wood gave way to coal and coal made room for oil, as we now turn to natural gas, nuclear power, and renewable energy. “Entertaining and informative...a powerful look at the importance of science” (NPR.org), Rhodes looks back on five centuries of progress, through such influential figures as Queen Elizabeth I, King James I, Benjamin Franklin, Herman Melville, John D. Rockefeller, and Henry Ford. In his “magisterial history...a tour de force of popular science” (Kirkus Reviews, starred review), Rhodes shows how breakthroughs in energy production occurred; from animal and waterpower to the steam engine, from internal-combustion to the electric motor. He looks at the current energy landscape, with a focus on how wind energy is competing for dominance with cast supplies of coal and natural gas. He also addresses the specter of global warming, and a population hurtling towards ten billion by 2100. Human beings have confronted the problem of how to draw energy from raw material since the beginning of time. Each invention, each discovery, each adaptation brought further challenges, and through such transformations, we arrived at where we are today. “A beautifully written, often inspiring saga of ingenuity and progress...Energy brings facts, context, and clarity to a key, often contentious subject” (Booklist, starred review).

Here, for the first time, in a brilliant, panoramic portrait by the Pulitzer Prize-winning

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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.

*The Making of the Atomic Bomb* Simon and Schuster

A history of the origins and development of the American atomic bomb program during WWII. Begins with the scientific developments of the pre-war years. Details the role of the U.S. government in conducting a secret, nationwide enterprise that took science from the laboratory and into combat with an entirely new type of weapon. Concludes with a discussion of the immediate postwar period, the debate over the Atomic Energy Act of 1946, and the founding of the Atomic Energy Commission. Chapters: the Einstein letter; physics background, 1919-1939; early government support; the atomic bomb and American strategy; and the Manhattan district in peacetime. Illustrated.

This book discusses the decision to use the atomic bomb. Libraries and scholars will find it a necessary adjunct to their other studies by Pulitzer-Prize author Herbert Feis on World War II. Originally published in 1966. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and

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hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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 Berg, 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

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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.

Traces the development of the atomic bomb from Leo Szilard's concept through the drama of the race to build a workable device to the dropping of the bomb on Hiroshima. 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.

The #1 national bestselling “riveting” (The New York Times), “propulsive” (Time) behind-the-scenes account “that reads like a tense thriller” (The Washington Post) of the 116 days leading up to the American attack on Hiroshima by veteran journalist and anchor of Fox News Sunday, Chris Wallace. April 12, 1945: After years of bloody conflict in Europe and the Pacific, America is stunned by news of President Franklin D.

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Roosevelt's death. In an instant, Vice President Harry Truman, who has been kept out of war planning and knows nothing of the top-secret Manhattan Project to develop the world's first atomic bomb, must assume command of a nation at war on multiple continents—and confront one of the most consequential decisions in history. *Countdown 1945* tells the gripping true story of the turbulent days, weeks, and months to follow, leading up to August 6, 1945, when Truman gives the order to drop the bomb on Hiroshima. In *Countdown 1945*, Chris Wallace, the veteran journalist and anchor of Fox News Sunday, takes readers inside the minds of the iconic and elusive figures who join the quest for the bomb, each for different reasons: the legendary Albert Einstein, who eventually calls his vocal support for the atomic bomb “the one great mistake in my life”; lead researcher J. Robert “Oppie” Oppenheimer and the Soviet spies who secretly infiltrate his team; the fiercely competitive pilots of the plane selected to drop the bomb; and many more. Perhaps most of all, *Countdown 1945* is the story of an untested new president confronting a decision that he knows will change the world forever. But more than a book about the atomic bomb, *Countdown 1945* is also an unforgettable account of the lives of ordinary American and Japanese civilians in wartime—from “Calutron Girls” like Ruth Sisson in Oak Ridge, Tennessee, to ten-year-old Hiroshima resident Hideko Tamura, who survives the blast at ground zero but loses her mother and later immigrates to the United States, where she lives to this day—as well as American soldiers fighting in the Pacific, waiting in fear for the order to launch a

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possible invasion of Japan. Told with vigor, intelligence, and humanity, Countdown 1945 is the definitive account of one of the most significant moments in history. An unflinching examination of the moral and professional dilemmas faced by physicians who took part in the Manhattan Project. After his father died, James L. Nolan, Jr., took possession of a box of private family materials. To his surprise, the small secret archive contained a treasure trove of information about his grandfather's role as a doctor in the Manhattan Project. Dr. Nolan, it turned out, had been a significant figure. A talented ob-gyn radiologist, he cared for the scientists on the project, organized safety and evacuation plans for the Trinity test at Alamogordo, escorted the "Little Boy" bomb from Los Alamos to the Pacific Islands, and was one of the first Americans to enter the irradiated ruins of Hiroshima and Nagasaki. Participation on the project challenged Dr. Nolan's instincts as a healer. He and his medical colleagues were often conflicted, torn between their duty and desire to win the war and their oaths to protect life. Atomic Doctors follows these physicians as they sought to maximize the health and safety of those exposed to nuclear radiation, all the while serving leaders determined to minimize delays and maintain secrecy. Called upon both to guard against the harmful effects of radiation and to downplay its hazards, doctors struggled with the ethics of ending the deadliest of all wars using the most lethal of all weapons. Their work became a very human drama of ideals, co-optation, and complicity. A vital and vivid account of a largely unknown chapter in atomic history, Atomic Doctors is a profound meditation on

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the moral dilemmas that ordinary people face in extraordinary times.

During World War II, nations raced to construct the world's first nuclear weapon that would determine the future of the world. The Manhattan Project, one of the most significant achievements of the 20th century, was the culmination of America's war effort. Today, although the issue of nuclear weapons frequently dominates world politics, few are aware of the history behind its development. Part I of this book, comprised of papers from the Atomic Heritage Foundation's Symposium on the Manhattan Project, recounts the history of this remarkable effort and reflects upon its legacy. Most of the original structures of the Manhattan Project have been inaccessible to the public and in recent years, have been stripped of their equipment and slated for demolition. Part II proposes a strategy for preserving these historical artifacts for the public and future generations."

After World War II, the US Atomic Energy Commission (AEC) began mass-producing radioisotopes, sending out nearly 64,000 shipments of radioactive materials to scientists and physicians by 1955. Even as the atomic bomb became the focus of Cold War anxiety, radioisotopes represented the government's efforts to harness the power of the atom for peace—advancing medicine, domestic energy, and foreign relations. In *Life Atomic*, Angela N. H. Creager tells the story of how these radioisotopes, which were simultaneously scientific tools and political icons, transformed biomedicine and ecology. Government-produced radioisotopes provided physicians with new tools for

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diagnosis and therapy, specifically cancer therapy, and enabled biologists to trace molecular transformations. Yet the government's attempt to present radioisotopes as marvelous dividends of the atomic age was undercut in the 1950s by the fallout debates, as scientists and citizens recognized the hazards of low-level radiation. Creager reveals that growing consciousness of the danger of radioactivity did not reduce the demand for radioisotopes at hospitals and laboratories, but it did change their popular representation from a therapeutic agent to an environmental poison. She then demonstrates how, by the late twentieth century, public fear of radioactivity overshadowed any appreciation of the positive consequences of the AEC's provision of radioisotopes for research and medicine.

Traces the development of the atomic bomb from Leo Szilard's concept through the drama of the race to build a workable device to the dropping of the bomb on Hiroshima James B. Conant (1893-1978) was one of the titans of mid-20th-century American history, attaining prominence and power in multiple fields. Usually remembered as an educational leader, he was president of Harvard University for two tumultuous decades, from the Depression to World War II to the Cold War and McCarthyism. To take that job he gave up a scientific career as one of the country's top chemists, and he left it twenty years later to become Eisenhower's top diplomat in postwar Germany. Hershberg's prize-winning study, however, examines a critical aspect of Conant's life that was long obscured by government secrecy: his pivotal role in the birth of the nuclear age. During

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World War II, as an advisor to Roosevelt and then Truman (on the elite “Interim Committee” that considered how to employ the bomb against Japan), Conant was intimately involved in the decisions to build and use the atomic bomb. During and after the Manhattan Project, he also led efforts to prevent a postwar nuclear arms race between the United States and the Soviet Union that, he feared, threatened the survival of civilization — an apocalyptic prospect he glimpsed in the first instant of the new age, when he witnessed the first test of the new weapon at Alamogordo on July 16, 1945. “... a vivid inquiry... a model of historiography; evocative reading...[Conant was] central to atomic policy and progress; the bomb would be as much Conant’s as it was anyone’s in Government. His inner response to that burden responsibility has long been obscured, but it is illumined here.” — Philip Morrison, *The New York Times Book Review* “In his splendid portrait of Conant, James Hershberg has illuminated the life of a pivotal figure in the making of U.S. nuclear, scientific, educational and foreign policy for almost a half-century. But the book is much more: It is not only an insightful narration of Conant’s life; it is also a brilliant and important account of the making of the nuclear age, a chronicle that contains much that is new... Hershberg’s superb study... is a chronicle of Conant’s moral journey and we are the wiser for his having charted Conant’s path.” — S.S. Schweber, *Washington Post Book World* “James G. Hershberg ably comes to grips with Conant and his hazardous times... His book is vibrantly written and compelling, and it breaches Conant’s shield of public discretion in masterly

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fashion, making extensive use of unpublished interviews, diaries, reports, and correspondence pried from private and governmental repositories. It is a huge, ambitious work — a history of the Cold War as Conant encountered it as well as a study of the man.” — Daniel J. Kevles, *The New Yorker* “... a well-written, comprehensive, nonjudgmental but sensitive biography... Conant was involved in so many and such critical events that students of almost any aspect of our public life over the past half-century will find useful the new material and helpful insights in this book... This fine biography of one of the most important and complicated of America’s twentieth-century leaders immediately establishes James Hershberg as one of America’s outstanding young historians.” — Stephen E. Ambrose, *Foreign Affairs* “... magnificent... Any reader interested in nuclear weapons, Cold War history or American politics from FDR to JFK will find this biography riveting.” — Priscilla McMillan, *Chicago Tribune* “... masterful... The prose is clear, the narrative forceful and the author’s judgments are balanced and judicious. This is simply splendid biography... The highest praise one can give for a book of this sort is that the historian has not shrunk from speaking truth to power. This book quietly but insistently does so. It should be read by the public at large as one of the definitive texts on the cold war and the nuclear age... Hershberg’s triumph is that he has prevailed over all the official lies to give us one more layer of the historical truth.” — Kai Bird, *The Nation* “... riveting... an impressive achievement... honest and comprehensive in its scholarship, the author has shown himself to be a historian of

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notable achievement and promise.” — McGeorge Bundy, *Nature* “Hershberg’s outstanding, balanced biography lifts the self-imposed secrecy surrounding a key architect of U.S. Cold War policy and of the nuclear age.” —*Publisher’s Weekly* “... [an] impressive and substantial achievement. [Hershberg] has used the life of one strategically placed individual to illuminate the most important issues surrounding America’s role and conduct in the nuclear age. His book will be invaluable to scholars assessing the impact and legacy of the group who acquired the epithet ‘wise men’ now that the Cold War has receded.” — Carol S. Gruber, *Science* “... definitive... a far more textured picture than one finds in Conant’s own guarded and unrevealing autobiography... an important and rewarding book... illuminating... Conant led a remarkable and eventful life in remarkable and eventful times. James Hershberg has explored that life, and those times, in exhaustive and revealing detail.” — Paul Boyer, *The New Republic* “James G. Hershberg has achieved the impossible. He has written a huge biography of a Harvard president that is fascinating, informative and as valuable a piece of American history as anything I have read in years... Mr. Hershberg has brought us back vividly to an age that seems remote, so long ago, but the questions about nuclear proliferation are the same, even while the answers are still ambiguous. As we watch men struggling with unanticipated post-Cold War problems and civil wars sprouting like Jason’s men at arms, it is good to read this story about a complex man who deserves an important place in our history because he helped make that history

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possible.” — Arnold Beichman, *The Washington Times* “... engrossing... A magisterial study of an awesome and intriguing public career.” —Kirkus Reviews “... entertaining... thought-provocative.” — Dick Teresi, *The Wall Street Journal* “Hershberg’s book helps us more clearly understand the postwar Establishment and offers a challenging appraisal of the role of elites, of universities and of the state.” — Gar Alperovitz, *In These Times* “Hershberg deserves great credit for cracking a tough New England walnut, analyzing this very important public figure, demonstrating how he fit into his own time and showing us what we can learn from the man.” — Daniel R. Mortensen, *The Friday Review of Defense Literature* “... a compelling account... an engaging examination of one of the central figures of the nuclear age. It succeeds in showing ‘one man’s intersection with great events and issues’ and in the process illuminates those issues for us all.” — *American Historical Review* “... well-written... Conant’s participation in one of our country’s most dynamic periods is, thanks to Hershberg, now much better understood.” — *Library Journal* “A reader of the book will enter the realm of the greats, the shapers of worlds created by the atomic blasts at Hiroshima and Nagasaki... Conant was no bit player in Cold War history... [the book is] very successful in weaving Conant’s subsurface persona in with his ups and downs as a prominent and committed public figure. And it leaves out little detail in describing top-level decisions involving the Cold War geopolitics of nuclear weaponry. Conant was a participant in most of these decisions—with Presidents Roosevelt and Truman themselves, their

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Secretaries of War and State, and, of course, all the major scientific figures of the time.” — Chemical & Engineering News “A wonderfully rich portrait that emerges from a carefully documented account of Conant’s role in the development of the atomic bomb and post-war nuclear policy... An extraordinarily well written text... Hershberg lays bare the person behind the persona — warts, dimples and all.” — Stanley Goldberg, Bulletin of the Atomic Scientists

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

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At the same time, something about Charlie draws her in. He's a former prisoner of war haunted by his past, just as her past haunts her. As Rosalind's feelings for each man deepen, so too does the danger she finds herself in. She will have to choose: the man who taught her how to love . . . or the man her love might save?

This is a political history of nuclear weapons from the discovery of fission in 1938 to the nuclear train wreck that seems to loom in our future. It is an account of where those weapons came from, how the technology surprisingly and covertly spread, and who is likely to acquire those weapons next and most importantly why. The authors' examination of post Cold War national and geopolitical issues regarding nuclear proliferation and the effects of Chinese sponsorship of the Pakistani program is eye opening. The reckless "nuclear weapons programs for sale" exporting of technology by Pakistan is truly chilling, as is the on-again off-again North Korean nuclear weapons program.

The #1 New York Times bestseller. Over 3 million copies sold! Tiny Changes, Remarkable Results No matter your goals, Atomic Habits offers a proven framework for improving--every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem isn't you. The problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you have the wrong system for change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get

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a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits inevitable and bad habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to: • make time for new habits (even when life gets crazy); • overcome a lack of motivation and willpower; • design your environment to make success easier; • get back on track when you fall off course; ...and much more. Atomic Habits will reshape the way you think about progress and success, and give you the tools and strategies you need to transform your habits--whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal.

With a blinding flash in the New Mexico desert in the summer of 1945, the world was changed forever. The bomb that ushered in the atomic age was the product of one of history's most improbable partnerships. The General and the Genius reveals how two extraordinary men pulled off the greatest scientific feat of the twentieth century. Leslie Richard Groves of the Army Corps of Engineers, who had made his name by building the Pentagon in record time and under budget, was made overlord of the impossibly vast scientific enterprise known as the Manhattan Project. His mission: to beat the Nazis to the atomic bomb. So he turned to the nation's preeminent theoretical physicist, J. Robert Oppenheimer—the chain-smoking, martini-

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quaffing son of wealthy Jewish immigrants, whose background was riddled with communist associations—Groves's opposite in nearly every respect. In their three-year collaboration, the iron-willed general and the visionary scientist led a brilliant team in a secret mountaintop lab and built the fearsome weapons that ended the war but introduced the human race to unimaginable new terrors. And at the heart of this most momentous work of World War II is the story of two extraordinary men—the general and the genius.

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

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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.

The author of *Road to Disaster* “[examines] the thoughts, feelings, and judgments of these nine men who created the first weapon of mass destruction” (*The Boston Globe*). There were nine of them—Oppenheimer, Teller, Fermi, Bohr, Lawrence, Bethe, Rabi, Szilard, and Compton—men who believed in science and who saw before anyone else did the awesome workings of an invisible world. They came from many places, some fleeing Nazism in Europe, others quietly slipping out of university teaching jobs, all gathering in secret wartime laboratories to create the world’s first atomic bomb. At one such place hidden away in the mountains of northern New Mexico—Los Alamos—they would crack the secret of the nuclear chain reaction and construct a device that incinerated a city and melted its victims so thoroughly that the only thing left was their scorched outlines on the sidewalks. During the war, few of the atomic scientists questioned the wisdom of their desperate endeavor. But afterward, they were forced to deal with the sobering legacy of their creation. Some were haunted by the dead of Hiroshima and Nagasaki and would become anti-nuclear weapons activists; others would go on to build bigger and even deadlier bombs. Some would remain friends; others would become bitter rivals and enemies. In explaining their lives and their struggles, Brian VanDeMark superbly illuminates the ways in which these brilliant and sensitive men came to terms with their horrific creation. The result is spectacular history and a moral investigation of the highest order. “Depicts the friendships forged among the fascinating and sometimes

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perturbing scientists as they struggled to come to grips with the implications of making the annihilating weapon.” —Booklist (starred review) “A welcome addition to the literature of the atomic age.” —Kirkus Reviews

Looks at the contributions of the thousands of women who worked at a secret uranium-enriching facility in Oak Ridge, Tennessee during World War II.

Hiroshima is the story of six people--a clerk, a widowed seamstress, a physician, a Methodist minister, a young surgeon, and a German Catholic priest--who lived through the greatest single manmade disaster in history. In vivid and indelible prose, Pulitzer Prize-winner John Hersey traces the stories of these half-dozen individuals from 8:15 a.m. on August 6, 1945, when Hiroshima was destroyed by the first atomic bomb ever dropped on a city, through the hours and days that followed. Almost four decades after the original publication of this celebrated book, Hersey went back to Hiroshima in search of the people whose stories he had told, and his account of what he discovered is now the eloquent and moving final chapter of Hiroshima. A thrilling narrative of scientific triumph, decades of secrecy, and the unimaginable destruction wrought by the creation of the atomic bomb. It began with plutonium, the first element ever manufactured in quantity by humans. Fearing that the Germans would be the first to weaponize the atom, the United States marshaled brilliant minds and seemingly inexhaustible bodies to find a way to create a nuclear chain reaction of inconceivable explosive power. In a matter of months, the Hanford nuclear facility was built to produce and weaponize the enigmatic and deadly new material that would fuel atomic bombs. In the desert of eastern Washington State, far from prying eyes, scientists Glenn Seaborg, Enrico Fermi, and many thousands of others—the physicists, engineers, laborers, and support staff at the

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facility—manufactured plutonium for the bomb dropped on Nagasaki, and for the bombs in the current American nuclear arsenal, enabling the construction of weapons with the potential to end human civilization. With his characteristic blend of scientific clarity and storytelling, Steve Olson asks why Hanford has been largely overlooked in histories of the Manhattan Project and the Cold War. Olson, who grew up just twenty miles from Hanford's B Reactor, recounts how a small Washington town played host to some of the most influential scientists and engineers in American history as they sought to create the substance at the core of the most destructive weapons ever created. *The Apocalypse Factory* offers a new generation this dramatic story of human achievement and, ultimately, of lethal hubris.

Enrico Fermi is unquestionably among the greats of the world's physicists, the most famous Italian scientist since Galileo. Called the Pope by his peers, he was regarded as infallible in his instincts and research. His discoveries changed our world; they led to weapons of mass destruction and conversely to life-saving medical interventions. This unassuming man struggled with issues relevant today, such as the threat of nuclear annihilation and the relationship of science to politics. Fleeing Fascism and anti-Semitism, Fermi became a leading figure in America's most secret project: building the atomic bomb. The last physicist who mastered all branches of the discipline, Fermi was a rare mixture of theorist and experimentalist. His rich legacy encompasses key advances in fields as diverse as cosmic rays, nuclear technology, and early computers. In their revealing book, *The Pope of Physics*, Gino Segré and Bettina Hoerlin bring this scientific visionary to life. An examination of the human dramas that touched Fermi's life as well as a thrilling history of scientific innovation in the twentieth century, this is the comprehensive biography that Fermi deserves.

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Describes the scientific discoveries and political circumstances behind the decision to develop atomic weapons; recounts the history of the Manhattan Project; and examines the influence of nuclear weapons on the modern world.

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.

Explores the complex intellectual life of the innovator of the atomic bomb, providing coverage of such topics as his sympathy toward Communism, his lead over the Manhattan Project, and his Jewish faith.

Twenty-five years after its initial publication, *The Making of the Atomic Bomb* remains the definitive history of nuclear weapons and the Manhattan Project. From the turn-of-the-century discovery of nuclear energy to the dropping of the first bombs on Japan, Richard Rhodes's Pulitzer Prize-winning book details the science, the people, and the socio-political realities that led to the development of the atomic bomb. This sweeping account begins in the 19th century, with the discovery of nuclear fission, and continues to World War Two and the Americans'

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race to beat Hitler's Nazis. That competition launched the Manhattan Project and the nearly overnight construction of a vast military-industrial complex that culminated in the fateful dropping of the first bombs on Hiroshima and Nagasaki. Reading like a character-driven suspense novel, the book introduces the players in this saga of physics, politics, and human psychology—from FDR and Einstein to the visionary scientists who pioneered quantum theory and the application of thermonuclear fission, including Planck, Szilard, Bohr, Oppenheimer, Fermi, Teller, Meitner, von Neumann, and Lawrence. From nuclear power's earliest foreshadowing in the work of H.G. Wells to the bright glare of Trinity at Alamogordo and the arms race of the Cold War, this dread invention forever changed the course of human history, and *The Making of The Atomic Bomb* provides a panoramic backdrop for that story. Richard Rhodes's ability to craft compelling biographical portraits is matched only by his rigorous scholarship. Told in rich human, political, and scientific detail that any reader can follow, *The Making of the Atomic Bomb* is a thought-provoking and masterful work.

In 1974 India exploded an atomic device. In May 1998 the new BJP Government exploded several more, encountering in the process domestic plaudits but international condemnation and a nuclear arms race in South Asia. This book is the first serious historical account of the development of nuclear power in India and of how the bomb came to be made. The author questions orthodox interpretations implying that it was a product of the Indo-Pakistani conflict. Instead, he suggests that the explosions had nothing to do with national security as conventionally understood. Instead he demonstrates the linkages that existed between the two apparently separate discourses of national security and national development, and explores their common underlying basis in postcolonial states. The result is a remarkable book that

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breaks new ground in integrating comparative politics, international relations and cultural studies.

“Riveting and poignant . . . The Winter Fortress metamorphoses from engrossing history into a smashing thriller . . . Mr. Bascomb’s research and, especially, his storytelling skills are first-rate.”—The Wall Street Journal “Weaving together his typically intense research and a riveting narrative, Neal Bascomb’s *The Winter Fortress* is a spellbinding piece of historical writing.” — Martin Dugard, author of *Into Africa* and co-author of the *Killing* series In 1942, the Nazis were racing to complete the first atomic bomb. All they needed was a single, incredibly rare ingredient: heavy water, which was produced solely at Norway’s Vemork plant. Under threat of death, Vemork’s engineers pushed production into overdrive. If the Allies could not destroy the plant, they feared the Nazis would soon be in possession of the most dangerous weapon the world had ever seen. But how would the Allied forces reach the castle fortress, set on a precipitous gorge in one of the coldest, most inhospitable places on earth? Based on a trove of top-secret documents and never-before-seen diaries and letters of the saboteurs, *The Winter Fortress* is an arresting chronicle of a brilliant scientist, a band of spies on skis, perilous survival in the wild, Gestapo manhunts, and a last-minute operation that would alter the course of the war. “A taut and peerlessly told adventure story full of thrills, derring-do and heart-stopping tension.” — Seattle Times “Told with both historical and scientific accuracy . . . this book has rocketed into my pantheon of the top suspense-filled stories about [World War II], along with *The 900 Days* and *The Colditz Story*.” — Ethan Siegel, *Forbes*

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