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KEY=J - MORENO JOHNS

American Prometheus

The Triumph and Tragedy of J. Robert Oppenheimer

Vintage WINNER OF THE PULITZER PRIZE FOR NONFICTION • "The definitive biography" (Newsweek) of J. Robert Oppenheimer, one of the iconic figures of the twentieth century, a brilliant physicist who led the effort to build the atomic bomb for his country in a time of war, and who later found himself confronting the moral consequences of scientific progress. In this magisterial, acclaimed biography twenty-five years in the making, Kai Bird and Martin Sherwin capture Oppenheimer's life and times, from his early career to his central role in the Cold War. This is biography and history at its finest, riveting and deeply informative. "A masterful account of Oppenheimer's rise and fall, set in the context of the turbulent decades of America's own transformation. It is a tour de force." —Los Angeles Times Book Review

In the Matter of J. Robert Oppenheimer

The Security Clearance Hearing

Cornell University Press At the end of World War II, J. Robert Oppenheimer was one of America's preeminent physicists. For his work as director of the Manhattan Project, he was awarded the Medal for Merit, the highest honor the U.S. government can bestow on a civilian. Yet, in 1953, Oppenheimer was denied security clearance amidst allegations that he was "more probably than not" an "agent of the Soviet Union." Determined to clear his name, he insisted on a hearing before the Atomic Energy Commission's Personnel Security Board. In the Matter of J. Robert Oppenheimer contains an edited and annotated transcript of the 1954 hearing, as well as the various reports resulting from it. Drawing on recently declassified FBI files, Richard Polenberg's introductory and concluding essays situate the hearing in the Cold War period, and his thoughtful analysis helps explain why the hearing was held, why it turned out as it did, and what that result meant, both for Oppenheimer and for the United States. Among the forty witnesses who testified were many who had played vitally important roles in the making of U.S. nuclear policy: Enrico Fermi, Hans Bethe, Edward Teller, Vannevar Bush, George F. Kennan, and Oppenheimer himself. The hearing provides valuable insights into the development of the atomic bomb and the postwar debate among scientists over the hydrogen bomb, the conflict between the foreign policy and military establishments over national defense, and the controversy over the proper standards to apply in assessing an individual's loyalty. It reveals as well the fears and anxieties that plagued America during the Cold War era.

The Oppenheimer Alternative

CAEZIK SF & Fantasy On the 75th anniversary of the dropping of the atomic bomb, Hugo and Nebula-winning author Robert J. Sawyer takes us back in time to revisit history...with a twist. While J. Robert Oppenheimer and his Manhattan Project team struggle to develop the A-bomb, Edward Teller wants something even more devastating: a bomb based on nuclear fusion--the mechanism that powers the sun. Teller's research leads to a terrifying discovery: by the year 2030, the sun will eject its outermost layer, destroying the entire inner solar system--including Earth. As the war ends with the use of fission bombs against Japan, Oppenheimer's team, plus Albert Einstein and Wernher von Braun, stay together--the greatest scientific geniuses from the last century racing against time to save our future. Meticulously researched and replete with real-life characters and events, The Oppenheimer Alternative is a breathtaking adventure through both real and alternate history.

Robert Oppenheimer

A Life Inside the Center

Anchor 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.

Something Incredibly Wonderful Happens

Frank Oppenheimer and His Astonishing Exploratorium

University of Chicago Press Cole--a friend and colleague of Frank Oppenheimer's for many years--has drawn from letters, documents, and extensive interviews to write a very personal story of the man whose irrepressible spirit would inspire so many.

Brotherhood of the Bomb

The Tangled Lives and Loyalties of Robert Oppenheimer, Ernest Lawrence, and Edward Teller

Henry Holt and Company The fascinating story of the men who founded the nuclear age, fully told for the first time The story of the twentieth century is largely the story of the power of science and technology. Within that story is the incredible tale of the human conflict between Robert Oppenheimer, Ernest Lawrence, and Edward Teller-the scientists most responsible for the advent of weapons of mass destruction. How did science-and its practitioners-enlisted in the service of the state during the Second World War, become a slave to its patron during the Cold War? The story of these three men, builders of the bombs, is fundamentally about loyalty-to country, to science, and to each other-and about the wrenching choices that had to be made when these allegiances came into conflict. Gregg Herken gives us the behind-the-scenes account based upon a decade of research, interviews, and

newly released Freedom of Information Act and Russian documents. Brotherhood of the Bomb is a vital slice of American history told authoritatively and grippingly for the first time.

J. Robert Oppenheimer

The Brain Behind the Bomb

Enslow Publishers, Inc. Presents the life and accomplishments of the director of the Manhattan Project, focusing on his involvement with the development of the atom bomb.

Inside the Centre

The Life of J. Robert Oppenheimer

Random House J. Robert Oppenheimer is among the most contentious and important figures of the twentieth century. As head of the Los Alamos Laboratory, he oversaw the successful effort to beat the Nazis to develop the first atomic bomb - a breakthrough which was to have eternal ramifications for mankind, and made Oppenheimer the 'father of the Bomb'. But his was not a simple story of assimilation, scientific success and world fame. A complicated and fragile personality, the implications of the discoveries at Los Alamos were to weigh heavily upon him. Having formed suspicious connections in the 1930s, in the wake of the Allied victory in World War Two, Oppenheimer's attempts to resist the escalation of the Cold War arms race would lead many to question his loyalties - and set him on a collision course with Senator Joseph McCarthy and his witch hunters.

Crazy Rich

Power, Scandal, and Tragedy Inside the Johnson & Johnson Dynasty

Macmillan An unauthorized family portrait documents the private lives of the Johnson empire, discussing their high-profile affairs, their struggles with addiction and mental illness, and the obsessions of a dynasty ruler who abandoned his family in favor of his ideals.

The Manhattan Project

A very brief introduction to the physics of nuclear weapons

Morgan & Claypool Publishers 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.

Hominids

Volume One of The Neanderthal Parallax

Macmillan Robert Sawyer's SF novels are perennial nominees for the Hugo Award, the Nebula Award, or both. Clearly, he must be doing something right since each one has been something new and different. What they do have in common is imaginative originality, great stories, and unique scientific extrapolation. His latest is no exception. Hominids is a strong, stand-alone SF novel, but it's also the first book of The Neanderthal Parallax, a trilogy that will examine two unique species of people. They are alien to each other, yet bound together by the never-ending quest for knowledge and, beneath their differences, a common humanity. We are one of those species, the other is the Neanderthals of a parallel world where they, not Homo sapiens, became the dominant intelligence. In that world, Neanderthal civilization has reached heights of culture and science comparable to our own, but is very different in history, society, and philosophy. During a risky experiment deep in a mine in Canada, Ponter Boddit, a Neanderthal physicist, accidentally pierces the barrier between worlds and is transferred to our universe, where in the same mine another experiment is taking place. Hurt, but alive, he is almost immediately recognized as a Neanderthal, but only much later as a scientist. He is captured and studied, alone and bewildered, a stranger in a strange land. But Ponter is also befriended by a doctor and a physicist who share his questing intelligence and boundless enthusiasm for the world's strangeness, and especially by geneticist Mary Vaughan, a lonely woman with whom he develops a special rapport. Meanwhile, Ponter's partner, Adikor Huld, finds himself with a messy lab, a missing body, suspicious people all around, and an explosive murder trial that he can't possibly win because he has no idea what actually happened. Talk about a scientific challenge! Contact between humans and Neanderthals creates a relationship fraught with conflict, philosophical challenge, and threat to the existence of one species or the other-or both-but equally rich in boundless possibilities for cooperation and growth on many levels, from the practical to the esthetic to the scientific to the spiritual. In short, Robert J. Sawyer has done it again. Hominids is the winner of the 2003 Hugo Award for Best Novel. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Robert Oppenheimer, Letters and Recollections

Stanford Nuclear Age (Paperbac Robert Oppenheimer (1904-1967) is one of the few American scientists who have become public and controversial figures in the twentieth century. This book adds a new dimension to the Oppenheimer story by offering a look at the private man behind the public figure. It consists of letters spanning the period from his Harvard student days in 1922 to his departure from Los Alamos in 1945. The letters are supplemented by recollections of those who knew Oppenheimer and by his own recollections from an interview a few years before his death. 'A beautifully organized collection of letters and reminiscences ... The editors have interviewed those who knew and worked with him, stirred in the necessary explanatory background, and produced an account, both scholarly and highly readable, which throws fresh light on a man who will probably always remain something of an enigma. Amid devotional defense and almost rabid attack, their book is a model of objectivity.' New York Times Book Review 'An intimate, carefully documented, and honest book.'

Gambling with Armageddon

Nuclear Roulette from Hiroshima to the Cuban Missile Crisis

Vintage From the Pulitzer Prize-winning author of *American Prometheus* comes the first effort to set the Cuban Missile Crisis, with its potential for nuclear holocaust, in a wider historical narrative of the Cold War—how such a crisis arose, and why at the very last possible moment it didn't happen. In this groundbreaking look at the Cuban Missile Crisis, Martin Sherwin not only gives us a riveting sometimes hour-by-hour explanation of the crisis itself, but also explores the origins, scope, and consequences of the evolving place of nuclear weapons in the post-World War II world. Mining new sources and materials, and going far beyond the scope of earlier works on this critical face-off between the United States and the Soviet Union—triggered when Khrushchev began installing missiles in Cuba at Castro's behest—Sherwin shows how this volatile event was an integral part of the wider Cold War and was a consequence of nuclear arms. *Gambling with Armageddon* looks in particular at the original debate in the Truman Administration about using the Atomic Bomb; the way in which President Eisenhower relied on the threat of massive retaliation to project U.S. power in the early Cold War era; and how President Kennedy, though unprepared to deal with the Bay of Pigs debacle, came of age during the Cuban Missile Crisis. Here too is a clarifying picture of what was going on in Khrushchev's Soviet Union. Martin Sherwin has spent his career in the study of nuclear weapons and how they have shaped our world. *Gambling with Armageddon* is an outstanding capstone to his work thus far.

The Outlier

The Unfinished Presidency of Jimmy Carter

Crown Publishing Group (NY) An essential re-evaluation of the complex triumphs and tragedies of Jimmy Carter's presidential legacy. In this first full presidential biography of Jimmy Carter, Bird unfolds the story of Carter's four years with few allies inside Washington and a great many critics in the media

Atomic Bomb: The Story of the Manhattan Project

How nuclear physics became a global geopolitical game-changer

Morgan & Claypool Publishers 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.

Oppenheimer and the Manhattan Project

Insights Into J. Robert Oppenheimer, "Father of the Atomic Bomb"

World Scientific 2004 marked the centennial of the birth of J. Robert Oppenheimer, and brought historians and scholars, former students, nuclear physicists, and politicians together to celebrate this event. Oppenheimer's life and work became central to 20th century history as he spearheaded the development of the atomic bomb that ended World War II. This book provides a spectrum of interpretations of Oppenheimer's life and scientific achievements. It approaches the extraordinary scientist and teacher from many perspectives, chronicling the years from his boyhood through his role as director of the Los Alamos National Laboratory and afterwards. The book also discusses Oppenheimer's connection to New Mexico, which hosted two of the Manhattan Project's most crucial sites, and addresses his lasting impact on contemporary science, international politics, and the postwar age.

Uncommon Sense

Springer Science & Business Media J. Robert Oppenheimer, a leading physicist in the Manhattan Project, recognized that scientific inquiry and discovery could no longer be separated from their effect on political decision-making, social responsibility, and human endeavor in general. He openly addressed issues of common concern and as a scientist accepted the responsibility brought about by nuclear physics and the atom bomb. In this collection of essays and speeches, Oppenheimer discusses the shift in scientific awareness and its impact on education, the question of openness in a society forced to keep secrets, the conflict between individual concerns and public and political necessity, the future of science and its effects on future politics—in short, the common and uncommon sense we find in our modern day reality.

Dark Sun

The Making Of The Hydrogen Bomb

Simon and Schuster 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.

J. Robert Oppenheimer

A Life

Oxford University Press The late Abraham Pais, author of the award winning biography of Albert Einstein, *Subtle is the Lord*, here offers an illuminating portrait of another of his eminent colleagues, J. Robert Oppenheimer, one of the most charismatic and enigmatic figures of modern physics. Pais introduces us to a precocious youth who sped through Harvard in three years, made signal contributions to quantum mechanics while in his twenties, and was instrumental in the growth of American physics in the decade before the Second World War, almost single-handedly bringing it to a state of prominence. He paints a revealing portrait of Oppenheimer's life in Los Alamos, where in twenty remarkable, feverish months, and under his inspired guidance, the first atomic bomb was designed and built, a success that made Oppenheimer America's most famous scientist. Pais describes Oppenheimer's long tenure as Director of the Institute of Advanced Study at Princeton, where the two men worked together closely. He shows not only Oppenheimer's brilliance and leadership, but also how his displays of intensity and arrogance won him powerful enemies, ones who would ultimately

make him one of the principal victims of the Red Scare of the 1950s. J. Robert Oppenheimer is Abraham Pais's final work, completed after his death by Robert P. Crease, an acclaimed historian of science in his own right. Told with compassion and deep insight, it is the most comprehensive biography of the great physicist available. Anyone seeking an insider's portrait of this enigmatic man will find it indispensable.

Oppenheimer

Portrait of an Enigma

Ivan R Dee As a former colleague of Oppenheimer's, Bernstein has composed a narrative that is both personal and historical, bringing the reader closer to the life and workings of an extraordinary and controversial man.

The Pastoral Clinic

Addiction and Dispossession Along the Rio Grande

Univ of California Press "Timely, disturbing, and luminously written, *The Pastoral Clinic* is anthropology at its best, bringing into view a devastating piece of reality, highlighting larger processes and human singularities, and calling for a new public and ethics of care."—João Biehl, author of *Vita: Life in a Zone of Social Abandonment* "Garcia calls for a new ethics of care for heroin addicts, exposing the insufficiency and lack of continuity of rapidly privatizing faith-based services for the rural poor. Her heartfelt ethnography of the geography of addiction in New Mexico reveals how formerly agricultural communities and families find themselves painfully embedded in a land of dispossession and displacement with an unresolvable past, and an unlivable present."—Philippe Bourgois, author of *Righteous Dopefiend* "Angela Garcia has expanded the roots and basis of addictions to the great losses—personal, cultural, economic, of birthright and land—that few would dare to explore. I've sought a book like this for years, addressing my own addictions and those of the young men and women I've worked with for decades. A formidable thinker, a wrench-in-the-works activist inside and out of the industry, Angela understands that addictions are not a 'always has been and always will be' fate, but a collective, individual, and even 'intimate,' funneling into the web. And how the path toward healing, reconciliation, and wholeness is in the land, in the hand, and the capable heart of every addict and broken community."—Luis J. Rodriguez, author of *Always Running: La Vida Loca, Gang Days in LA*

Memoirs

A Twentieth Century Journey In Science And Politics

Edward Teller is perhaps best known for his belief in freedom through strong defense. But this extraordinary memoir at last reveals the man behind the headlines--passionate and humorous, devoted and loyal. Never before has Teller told his story as fully as he does here. We learn his true position on everything from the bombing of Japan to the pursuit of weapons research in the post-war years. In clear and compelling prose, Teller chronicles the people and events that shaped him as a scientist, beginning with his early love of music and math, and continuing with his study of quantum physics under Werner Heisenberg. He also describes his relationships with some of the century's greatest minds--Einstein, Bohr, Fermi, Szilard, von Neumann--and offers an honest assessment of the development of the atomic and hydrogen bombs, the founding of Lawrence Livermore Laboratory, and his complicated relationship with J. Robert Oppenheimer. Rich and humanizing, this candid memoir describes the events that led Edward Teller to be honored or abhorred, and provides a fascinating perspective on the ability of a single individual to affect the course of history.

Grave Misfortune: The USS Indianapolis Tragedy

The USS Indianapolis Tragedy

Government Printing Office Dedicated to the Sailors and Marines who lost their lives on the final voyage of USS Indianapolis and to those who survived the torment at sea following its sinking, plus the crews that risked their lives in rescue ships. The USS Indianapolis (CA-35) was a decorated World War II warship that is primarily remembered for her worst 15 minutes. . This ship earned ten (10) battle stars for her service in World War II and was credited for shooting down nine (9) enemy planes. However, this fame was overshadowed by the first 15 minutes July 30, 1945, when she was struck by two (2) torpedoes from Japanese submarine I-58 and sent to the bottom of the Philippine Sea. The sinking of Indianapolis and the loss of 880 crew out of 1,196 --most deaths occurring in the 4-5 day wait for a rescue delayed --is a tragedy in U.S. naval history. This historical reference showcases primary source documents to tell the story of Indianapolis, the history of this tragedy from the U.S. Navy perspective. It recounts the sinking, rescue efforts, follow-up investigations, aftermath and continuing communications efforts. Included are deck logs to better understand the ship location when she sunk and testimony of survivors and participants. For additional historical publications produced by the U.S. Naval History and Heritage Command, please check out these resources here: <https://bookstore.gpo.gov/agency/naval-history-heritage-command> Year 2016 marked the 71st anniversary of the sinking and another spike in public attention on the loss -- including a big screen adaptation of the story, talk of future films, documentaries, and planned expeditions to locate the wreckage of the warship.

Oppenheimer

The Tragic Intellect

University of Chicago Press At a time when the Manhattan Project was synonymous with large-scale science, physicist J. Robert Oppenheimer (1904-67) represented the new sociocultural power of the American intellectual. Catapulted to fame as director of the Los Alamos atomic weapons laboratory, Oppenheimer occupied a key position in the compact between science and the state that developed out of World War II. By tracing the making—and unmaking—of Oppenheimer's wartime and postwar scientific identity, Charles Thorpe illustrates the struggles over the role of the scientist in relation to nuclear weapons, the state, and culture. A stylish intellectual biography, Oppenheimer maps out changes in the roles of scientists and intellectuals in twentieth-century America, ultimately revealing transformations in Oppenheimer's persona that coincided with changing attitudes toward science in society. "This is an outstandingly well-researched book, a pleasure to read and distinguished by the high quality of its observations and judgments. It will be of special interest to scholars of modern history, but non-specialist readers will enjoy the clarity that Thorpe brings to common misunderstandings about his subject."—Graham Farmelo, *Times Higher Education Supplement* "A fascinating new perspective. . . . Thorpe's book provides the best perspective yet for understanding Oppenheimer's Los Alamos years, which were critical, after all, not only to his life but, for better or worse, the history of mankind."—Catherine Westfall, *Nature*

Lawrence and Oppenheimer

The Technological Society

Vintage As insightful and wise today as it was when originally published in 1954, Jacques Ellul's *The Technological Society* has become a classic in its field, laying the groundwork for all other studies of technology and society that have followed. Ellul offers a penetrating analysis of our technological civilization, showing how technology—which began innocuously enough as a servant of humankind—threatens to overthrow humanity itself in its ongoing creation of an environment that meets its own ends. No conversation about the dangers of technology and its unavoidable effects on society can begin without a careful reading of this book. "A magnificent book He goes through one human activity after another and shows how it has been technicized, rendered efficient, and diminished in the process."—Harper's "One of the most important books of the second half of the twentieth-century. In it, Jacques Ellul convincingly demonstrates that technology, which we continue to conceptualize as the servant of man, will overthrow everything that prevents the internal logic of its development, including humanity itself—unless we take necessary steps to move human society out of the environment that 'technique' is creating to meet its own needs."—The Nation "A description of the way in which technology has become completely autonomous and is in the process of taking over the traditional values of every society without exception, subverting and suppressing these values to produce at last a monolithic world culture in which all non-technological difference and variety are mere appearance."—Los Angeles Free Press

Armageddon and Paranoia

The Nuclear Confrontation Since 1945

Oxford University Press In a speech to the United Nations General Assembly in September 1961, President John F. Kennedy told his audience that "every man, woman, and child lives under a nuclear sword of Damocles, hanging by the slenderest of threads." In this sweeping, immersive, and now chillingly relevant history of nuclear confrontation, eminent historian and diplomat Rodric Braithwaite offers the tale of that slender thread, a tale that spans from the dropping of the atomic bomb on Hiroshima and Nagasaki in August 1945 into the present. Here is an account of treaties and summits, of life-and-death strategy among nations, featuring a vast and varied cast of individuals--scientists, spies, diplomats, generals, politicians, shamans, writers, geniuses, the hight-minded and the crackpot--all ow whom played their part in shaping the Nuclear Age. As [this book] shows, containing atomic weapons has been a central preoccupation of global politics and policy for the last seven decades. In the years after World War II, atomic weapons were initially controlled only by the superpowers, first the United States, followed shortly by the former Soviet Union (mainly by having infiltrated the Manhattan Project), then developed in succession by England, France, China, India, and Pakistan. In recent years, North Korea has developed a nuclear weapons program and is now developing the means of delivering them. Nuclear proliferation has long dominated and even obsessed international diplomacy and policy, particularly as the capacity to unleash catastrophic destruction became widespread. Braithwaite offers an overview of policy from the Cold war reliance on what was termed "Deterrence," a policy of Mutually Assured Destruction (MAD), to the "Armageddon theology" of Ronald Reagan, to the de-alerting of nuclear weapons promised by both George W. Bush and Barack Obama, to the fire and fury driving the current war of tweeted insults. For nearly three-quarters of a century, nuclear weapons have shadowed human existence, moving from crisis to quiescence and back to crisis. Armageddon and Paranoia comes at a time when tensions are mounting once more. Though we cannot un-invent the atomic bomb, Braithwaite's clear-sighted and illuminating history provides a deeper understanding of how it has shaped the world in which we live. -- Dust jacket.

The Signal and the Noise

Why So Many Predictions Fail--but Some Don't

Penguin UPDATED FOR 2020 WITH A NEW PREFACE BY NATE SILVER "One of the more momentous books of the decade." —The New York Times Book Review Nate Silver built an innovative system for predicting baseball performance, predicted the 2008 election within a hair's breadth, and became a national sensation as a blogger—all by the time he was thirty. He solidified his standing as the nation's foremost political forecaster with his near perfect prediction of the 2012 election. Silver is the founder and editor in chief of the website FiveThirtyEight. Drawing on his own groundbreaking work, Silver examines the world of prediction, investigating how we can distinguish a true signal from a universe of noisy data. Most predictions fail, often at great cost to society, because most of us have a poor understanding of probability and uncertainty. Both experts and laypeople mistake more confident predictions for more accurate ones. But overconfidence is often the reason for failure. If our appreciation of uncertainty improves, our predictions can get better too. This is the “prediction paradox”: The more humility we have about our ability to make predictions, the more successful we can be in planning for the future. In keeping with his own aim to seek truth from data, Silver visits the most successful forecasters in a range of areas, from hurricanes to baseball to global pandemics, from the poker table to the stock market, from Capitol Hill to the NBA. He explains and evaluates how these forecasters think and what bonds they share. What lies behind their success? Are they good—or just lucky? What patterns have they unraveled? And are their forecasts really right? He explores unanticipated commonalities and exposes unexpected juxtapositions. And sometimes, it is not so much how good a prediction is in an absolute sense that matters but how good it is relative to the competition. In other cases, prediction is still a very rudimentary—and dangerous—science. Silver observes that the most accurate forecasters tend to have a superior command of probability, and they tend to be both humble and hardworking. They distinguish the predictable from the unpredictable, and they notice a thousand little details that lead them closer to the truth. Because of their appreciation of probability, they can distinguish the signal from the noise. With everything from the health of the global economy to our ability to fight terrorism dependent on the quality of our predictions, Nate Silver’s insights are an essential read.

The Uninhabitable Earth

Life After Warming

"It is worse, much worse, than you think. If your anxiety about global warming is dominated by fears of sea-level rise, you are barely scratching the surface of what terrors are possible. In California, wildfires now rage year-round, destroying thousands of homes. Across the US, "500-year" storms pummel communities month after month, and floods displace tens of millions annually. This is only a preview of the changes to come. And they are coming fast. Without a revolution in how billions of humans conduct their lives, parts of the Earth could become close to uninhabitable, and other parts horrifically inhospitable, as soon as the end of this century. In his travelogue of our near future, David Wallace-Wells brings into stark relief the climate troubles that await -- food shortages, refugee emergencies, and other crises that will reshape the globe. But the world will be remade by warming in more profound ways as well, transforming our politics, our culture, our relationship to technology, and our sense of history. It will be all-encompassing, shaping and distorting nearly every aspect of human life as it is lived today. Like *An Inconvenient Truth* and *Silent Spring* before it, *The Uninhabitable Earth* is both a meditation on the devastation we have brought upon ourselves and an impassioned call to action. For just as the world was brought to the brink of catastrophe within the span of a lifetime, the responsibility to avoid it now belongs to a single generation"--

Atomic Spy

The Dark Lives of Klaus Fuchs

Penguin "Nancy Greenspan dives into the mysteries of the Klaus Fuchs espionage case and emerges with a classic Cold War biography of intrigue and torn loyalties. *Atomic Spy* is a mesmerizing morality tale, told with fresh sources and empathy." --Kai Bird, author of *The Good Spy* and coauthor of *American Prometheus: The Triumph and Tragedy of J. Robert Oppenheimer* The gripping biography of a notorious Cold War villain--the German-born British scientist who handed the Soviets top-secret American plans for the plutonium bomb--showing a man torn between conventional loyalties and a sense of obligation to a greater good. German by birth, British by naturalization, Communist by conviction, Klaus Fuchs was a fearless Nazi resister, a brilliant scientist, and an infamous spy. He was convicted of espionage by Britain in 1950 for handing over the designs of the plutonium bomb to the Russians, and has gone down in history as one of the most dangerous agents in American and British history. He put an end to America's nuclear hegemony and single-handedly heated up the Cold War. But, was Klaus Fuchs really evil? Using archives long hidden in Germany as well as intimate family correspondence, Nancy Thorndike Greenspan brings into sharp focus the moral and political ambiguity of the times in which Fuchs lived and the ideals with which he struggled. As a university student in Germany, he stood up to Nazi terror without flinching, and joined the Communists largely because

they were the only ones resisting the Nazis. After escaping to Britain in 1933, he was arrested as a German émigré--an "enemy alien"--in 1940 and sent to an internment camp in Canada. His mentor at university, renowned physicist Max Born, worked to facilitate his release. After years of struggle and ideological conflict, when Fuchs joined the atomic bomb project, his loyalties were firmly split. He started handing over top secret research to the Soviets in 1941, and continued for years from deep within the Manhattan Project at Los Alamos. Greenspan's insights into his motivations make us realize how he was driven not just by his Communist convictions but seemingly by a dedication to peace, seeking to level the playing field of the world powers. With thrilling detail from never-before-seen sources, *Atomic Spy* travels across the Germany of an ascendant Nazi party; the British university classroom of Max Born; a British internment camp in Canada; the secret laboratories of Los Alamos; and Eastern Germany at the height of the Cold War. *Atomic Spy* shows the real Klaus Fuchs--who he was, what he did, why he did it, and how he was caught. His extraordinary life is a cautionary tale about the ambiguity of morality and loyalty, as pertinent today as in the 1940s.

Fool Me Twice

Fighting the Assault on Science in America

Rodale Books "Whenever the people are well informed," Thomas Jefferson wrote, "they can be trusted with their own government." But what happens in a world dominated by complex science? Are the people still well-enough informed to be trusted with their own government? And with less than 2 percent of Congress with any professional background in science, how can our government be trusted to lead us in the right direction? Will the media save us? Don't count on it. In early 2008, of the 2,975 questions asked the candidates for president just six mentioned the words "global warming" or "climate change," the greatest policy challenge facing America. To put that in perspective, three questions mentioned UFOs. Today the world's major unsolved challenges all revolve around science. By the 2012 election cycle, at a time when science is influencing every aspect of modern life, antiscience views from climate-change denial to creationism to vaccine refusal have become mainstream. Faced with the daunting challenges of an environment under siege, an exploding population, a falling economy and an education system slipping behind, our elected leaders are hard at work ... passing resolutions that say climate change is not real and astrology can control the weather. Shawn Lawrence Otto has written a behind-the-scenes look at how the government, our politics, and the media prevent us from finding the real solutions we need. *Fool Me Twice* is the clever, outraged, and frightening account of America's relationship with science—a relationship that is on the rocks at the very time we need it most.

Tales of Research Misconduct

A Lacanian Diagnostics of Integrity Challenges in Science Novels

Springer This monograph contributes to the scientific misconduct debate from an oblique perspective, by analysing seven novels devoted to this issue, namely: *Arrowsmith* by Sinclair Lewis (1925), *The affair* by C.P. Snow (1960), *Cantor's Dilemma* by Carl Djerassi (1989), *Perlmann's Silence* by Pascal Mercier (1995), *Intuition* by Allegra Goodman (2006), *Solar* by Ian McEwan (2010) and *Derailment* by Diederik Stapel (2012). Scientific misconduct, i.e. fabrication, falsification, plagiarism, but also other questionable research practices, have become a focus of concern for academic communities worldwide, but also for managers, funders and publishers of research. The aforementioned novels offer intriguing windows into integrity challenges emerging in contemporary research practices. They are analysed from a continental philosophical perspective, providing a stage where various voices, positions and modes of discourse are mutually exposed to one another, so that they critically address and question one another. They force us to start from the admission that we do not really know what misconduct is. Subsequently, by providing case histories of misconduct, they address integrity challenges not only in terms of individual deviance but also in terms of systemic crisis, due to current transformations in the ways in which knowledge is produced. Rather than functioning as moral vignettes, the author argues that misconduct novels challenge us to reconsider some of the basic conceptual building blocks of integrity discourse. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.

A Short History of Nuclear Folly

Melville House In the spirit of *Dr. Strangelove* and *The Atomic Café*, a blackly sardonic people's history of atomic blunders and near-misses revealing the hushed-up and forgotten episodes in which the great powers gambled with catastrophe Rudolph Herzog, the acclaimed author of *Dead Funny*, presents a devastating account of history's most irresponsible uses of nuclear technology. From the rarely-discussed nightmare of "Broken Arrows" (40 nuclear weapons lost during the Cold War) to "Operation Plowshare" (a proposal to use nuclear bombs for large engineering projects, such as the construction of a second Panama Canal using 300 H-Bombs), Herzog focuses in on long-forgotten nuclear projects that nearly led to disaster. In an unprecedented people's history, Herzog digs deep into archives, interviews nuclear scientists, and collects dozens of rare photos. He explores the "accidental" drop of a Nagasaki-type bomb on a train conductor's home, the implanting of plutonium into patients' hearts, and the invention of wild tactical nukes, including weapons designed to kill enemy astronauts. Told in a riveting narrative voice, Herzog—the son of filmmaker Werner Herzog—also draws on childhood memories of the final period of the Cold War in Germany, the country once seen as the nuclear battleground for NATO and the Warsaw Pact countries, and discusses evidence that Nazi scientists knew how to make atomic weaponry . . . and chose not to. From the Hardcover edition.

Sun in a Bottle

The Strange History of Fusion and the Science of Wishful Thinking

Penguin With his knack for translating science into understandable, anecdotal prose and his trademark dry humor, award-winning science writer Charles Seife presents the first narrative account of the history of fusion for general readers in more than a decade. Tracing the story from its beginning into the twenty-first century, *Sun in a Bottle* reveals fusion's explosive role in some of the biggest scientific scandals of all time. Throughout this journey, he introduces us to the daring geniuses, villains, and victims of fusion science. With the giant international fusion project ITER (International Thermonuclear Experimental Reactor) now under construction, it's clear that the science of wishful thinking is as strong as ever. This book is our key to understanding why.

Duchamp's Pipe

A Chess Romance--Marcel Duchamp and George Koltanowski

North Atlantic Books Art, chess, and an \$87,000 pipe frame an inside look at the relationship between Dadaist artist Marcel Duchamp and chess Grandmaster George Koltanowski. Spanning three decades, two continents, two world wars, and the international art and chess scenes of the mid twentieth century, *Duchamp's Pipe* explores the remarkable friendship between art world enfant terrible Marcel Duchamp and blindfold chess champion George Koltanowski. Artist and cultural historian Celia Rabinovitch describes each man's rise to prominence, the chess matches that sparked their relationship, and the recently discovered pipe that Duchamp gave to Koltanowski. This tale of genius and resilience offers fresh insights into the essence of the gift in the bohemian underground. Rabinovitch invites us to discover the chess wizard and a Duchamp slightly off pedestal--and ultimately more human.

Governing the Commons

Cambridge University Press Tackles one of the most enduring and contentious issues of positive political economy: common pool resource management.

The Outlier

The Unfinished Presidency of Jimmy Carter

Crown "Important . . . a landmark presidential biography. . . Bird is able to build a persuasive case that the Carter presidency deserves this new look."-The New York Times Book Review An essential re-evaluation of the complex triumphs and tragedies of Jimmy Carter's presidential legacy-from the expert biographer and Pulitzer Prize-winning co-author of *American Prometheus* Four decades after Ronald Reagan's landslide win in 1980, Jimmy Carter's one-term presidency is often labeled a failure; indeed, many Americans view Carter as the only ex-president to have used the White House as a stepping-stone to greater achievements. But in retrospect the Carter political odyssey is a rich and human story, marked by both formidable accomplishments and painful political adversity. In this deeply researched, brilliantly written account, Pulitzer Prize-winning biographer Kai Bird deftly unfolds the Carter saga as a tragic tipping point in American history. As president, Carter was not merely an outsider; he was an outlier. He was the only president in a century to grow up in the heart of the Deep South, and his born-again Christianity made him the most openly religious president in memory. This outlier brought to the White House a rare mix of humility, candor, and unnerving self-confidence that neither Washington nor America was ready to embrace. Decades before today's public reckoning with the vast gulf between America's ethos and its actions, Carter looked out on a nation torn by race and demoralized by Watergate and Vietnam and prescribed a radical self-examination from which voters recoiled. The cost of his unshakable belief in doing the right thing would belose his re-election bid and witnessing the ascendance of Reagan. In these remarkable pages, Bird traces the arc of Carter's administration, from his aggressive domestic agenda to his controversial foreign policy record, taking readers inside the Oval Office and through Carter's battles with both a political establishment and a Washington press corps that proved as adversarial as any foreign power. Bird shows how issues still hotly debated today—from national health care to growing inequality and racism to the Israeli-Palestinian conflict—burned at the heart of Carter's America, and consumed a president who found a moral duty in solving them. Drawing on interviews with Carter and members of his administration and recently declassified documents, Bird delivers a profound, clear-eyed evaluation of a leader whose legacy has been deeply misunderstood. The Outlier is the definitive account of an enigmatic presidency—both as it really happened and as it is remembered in the American consciousness.

The Hope And Vision Of J. Robert Oppenheimer

World Scientific Incorporating elements from history, science, philosophy and international relations theory, this book takes a fresh look at the life and thought of Robert Oppenheimer. The author argues that not only are Oppenheimer's ideas important, engaging and relevant, but also more coherent than generally assumed. He makes a convincing case that Oppenheimer has much to say about 21st century issues, and his voice should be brought back into the public forum. The book recovers and reconstructs what Oppenheimer said and wrote during the 1940s, 50s and 60s (i.e., his hope and vision) with the goal of identifying what might be of general philosophical interest today. It considers not only Oppenheimer's thought, but also his life using philosophical ideas developed by contemporary philosophers. In addition, to deepen and broaden the discussion and demonstrate the relevance of Oppenheimer's vision for the present, the author analyzes his views using contemporary international relations theory with a special emphasis on nuclear nonproliferation and disarmament. This examination reveals ways in which Oppenheimer's reasoning was prescient of current work being carried out to control, and possibly move beyond, the nuclear revolution.

Guide to U.S. Foreign Policy

A Diplomatic History

CQ Press At no time in American history has an understanding of the role and the art of diplomacy in international relations been more essential than it is today. Both the history of U.S. diplomatic relations and the current U.S. foreign policy in the twenty-first century are major topics of study and interest across the nation and around the world. Spanning the entire history of American diplomacy—from the First Continental Congress to the war on terrorism to the foreign policy goals of the twenty-first century—Guide to U.S. Foreign Policy traces not only the growth and development of diplomatic policies and traditions but also the shifts in public opinion that shape diplomatic trends. This comprehensive, two-volume reference shows how the United States gained “the strength of a giant” and also analyzes key world events that have determined the United States' changing relations with other nations. The two volumes' structure makes the key concepts and issues accessible to researchers: The set is broken up into seven parts that feature 40 topical and historical chapters in which expert writers cover the diplomatic initiatives of the United States from colonial times through the present day. Volume II's appendix showcases an A-to-Z handbook of diplomatic terms and concepts, organizations, events, and issues in American foreign policy. The appendix also includes a master bibliography and a list of presidents; secretaries of state, war, and defense; and national security advisers and their terms of service. This unique reference highlights the changes in U.S. diplomatic policy as government administrations and world events influenced national decisions. Topics include imperialism, economic diplomacy, environmental diplomacy, foreign aid, wartime negotiations, presidential influence, NATO and its role in the twenty-first century, and the response to terrorism. Additional featured topics include the influence of the American two-party system, the impact of U.S. elections, and the role of the United States in international organizations. Guide to U.S. Foreign Policy is the first comprehensive reference work in this field that is both historical and thematic. This work is of immense value for researchers, students, and others studying foreign policy, international relations, and U.S. history. ABOUT THE EDITORS Robert J. McMahon is the Ralph D. Mershon Professor of History in the Mershon Center for International Security Studies at The Ohio State University. He is a leading historian of American diplomatic history and is author of several books on U.S. foreign relations. Thomas W. Zeiler is professor of history and international affairs at the University of Colorado at Boulder and is the executive editor of the journal *Diplomatic History*.

Oppenheimer

Oberon Books 1939: fascism spreads across Europe, Franco marches on Barcelona and two German chemists discover the processes of atomic fission. In Berkeley, California, theoretical physicists recognise the horrendous potential of this new science: a weapon that draws its power from the very building blocks of the universe. Struggling to cast off his radical past and thrust into a position of power and authority, the charismatic J Robert Oppenheimer races to win the 'battle of the laboratories' and create a weapon so devastating that it would bring about an end not just to the Second World War but to all war. Tom Morton-Smith's new play takes us into the heart of the Manhattan Project, revealing the personal cost of making history.