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# A Bright Future: How Some Countries Have Solved Climate Change and the Rest Can Follow

**Item Type** Book

**Author** Joshua S. Goldstein

**Author** Staffan A. Qvist

**Author** Steven Pinker

**Abstract** The first book to offer a proven, fast, inexpensive, and practical way to cut greenhouse gas emissions and prevent catastrophic climate change. As climate change quickly approaches a series of turning points that guarantee disastrous outcomes, a solution is hiding in plain sight. Several countries have already replaced fossil fuels with low-carbon energy sources, and done so rapidly, in one to two decades. By following their methods, we could decarbonize the global economy by midcentury, replacing fossil fuels even while world energy use continues to rise. But so far we have lacked the courage to really try. In this clear-sighted and compelling book, Joshua Goldstein and Staffan Qvist explain how clean energy quickly replaced fossil fuels in such places as Sweden, France, South Korea, and Ontario. Their people enjoyed prosperity and growing energy use in harmony with the natural environment. They didn't do this through personal sacrifice, nor through 100 percent renewables, but by using them in combination with an energy source the Swedes call kÃ¤rakraft, hundreds of times safer and cleaner than coal. Clearly written and beautifully illustrated, yet footnoted with extensive technical references, Goldstein and Qvist's book will provide a new touchstone in discussions of climate change. It could spark a shift in world energy policy that, in the words of Steven Pinker's foreword, literally saves the world.

**Date** 2019-01-08

**Language** English

**Short Title** A Bright Future

**Library Catalog** Amazon

**Place** New York

**Publisher** PublicAffairs

**ISBN** 978-1-5417-2410-5

**Edition** First edition

**# of Pages** 288

**Date Added** 1/20/2025, 9:55:25 AM

**Modified** 1/20/2025, 9:55:55 AM

## Notes:

Includes bibliographical references (pages 229-264 ) and index Hier auch spÃ¤ter erschienene, unverÃ¤nderte Nachdrucke

## Attachments

- Amazon.com Link
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## Atomic Accidents: A History of Nuclear Meltdowns and Disasters: From the Ozark Mountains to Fukushima

**Item Type** Book

**Author** Jim Mahaffey

**Abstract** A “delightfully astute” and “entertaining” history of the mishaps and meltdowns that have marked the path of scientific progress (Kirkus Reviews, starred review). Radiation: What could go wrong? In short, plenty. From Marie Curie carrying around a vial of radium salt because she liked the pretty blue glow to the large-scale disasters at Chernobyl and Fukushima, dating back to the late nineteenth century, nuclear science has had a rich history of innovative exploration and discovery, coupled with mistakes, accidents, and downright disasters. In this lively book, long-time advocate of continued nuclear research and nuclear energy James Mahaffey looks at each incident in turn and analyzes what happened and why, often discovering where scientists went wrong when analyzing past meltdowns. Every incident, while taking its toll, has led to new understanding of the mighty atom—and the fascinating frontier of science that still holds both incredible risk and great promise.

**Date** February 4, 2014

**Language** English

**Short Title** Atomic Accidents

**Library Catalog** Amazon

**Publisher** Pegasus Books

**# of Pages** 619

**Date Added** 1/21/2020, 2:06:25 PM

**Modified** 1/21/2020, 2:06:25 PM

## Attachments

- Amazon.com Link
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## Atomic adventures: secret islands, forgotten N-rays, and isotopic murder - a journey into the wild world of nuclear science

**Item Type** Book

**Author** James A. Mahaffey

**Abstract** Mahaffey unearths lost reactors on far-flung islands and finds trees that were exposed to active fission -- which then changed gender or bloomed in the dead of winter. He explains why we have nuclear submarines but not nuclear aircraft and why cold fusion does not -- and cannot -- exist. And who knew that radiation-counting was once a fashionable trend? Though parts of our nuclear history might seem like fiction -- such

as when cowboys got their hands on a reactor -- Mahaffey's prose holds the reader in thrall of the energy of scientific curiosity and ingenuity that may hold the key to solving our energy crisis -- or even send us to Mars

**Date** 2017

**Short Title** Atomic adventures

**Library Catalog** Library of Congress ISBN

**Call Number** TK9145 .M315 2017

**Extra** OCLC: ocn959875770

**Place** New York, NY

**Publisher** Pegasus Books Ltd

**ISBN** 978-1-68177-421-3

**Edition** First Pegasus Books edition

**# of Pages** 363

**Date Added** 1/20/2025, 9:52:12 AM

**Modified** 1/20/2025, 9:56:52 AM

## Tags:

Nuclear energy, Nuclear engineering, Government policy, Government policy History, History, Nuclear facilities, SCIENCE / Experiments & Projects, SCIENCE / History, SCIENCE / Physics / Nuclear

## Notes:

Author's note: Stories told at night around the glow of the reactor -- Introduction: The curious case of the n-rays, a dead end for all times -- Cry for me, Argentina -- AFP-67 in the Dawson Forest -- Inside cold fusion -- Good news and bad news -- The lost expedition to Mars -- The chic-4 revolution -- Japan's atomic bomb project -- The criminal use of nuclear disintegration -- The threat of the dirty bomb -- A bridge to the stars -- Conclusions

## Attachments

- Amazon.com Link

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## Atomic awakening: a new look at the history and future of nuclear power

**Item Type** Book

**Editor** James Mahaffey

**Abstract** "Persuasive and based on deep research. Atomic Awakening taught me a great deal." —NatureThe American public's introduction to nuclear technology was manifested in destruction and death. With Hiroshima and the Cold War still ringing in our ears, our perception of all things nuclear is seen through the lens of weapons development. Nuclear power is full of mind-bending theories, deep secrets, and the misdirection of public consciousness, some deliberate, some accidental. The result of this fixation on

bombs and fallout is that the development of a non-polluting, renewable energy source stands frozen in time. Outlining nuclear energy's discovery and applications throughout history, Mahaffey's brilliant and accessible book is essential to understanding the astounding phenomenon of nuclear power in an age where renewable energy and climate change have become the defining concerns of the twenty-first century.

**Date** 2010-10-15

**Language** eng

**Short Title** Atomic awakening

**Library Catalog** K10plus ISBN

**Place** New York

**Publisher** Pegasus Books

**ISBN** 978-1-60598-040-9

**Edition** Reprint edition

**# of Pages** 344

**Date Added** 1/20/2025, 9:45:45 AM

**Modified** 1/20/2025, 9:58:19 AM

## Notes:

Includes bibliographical references and index

## Attachments

- Amazon.com Link
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## Atoms and Ashes: A Global History of Nuclear Disasters

**Item Type** Book

**Author** Serhii Plokhy

**Abstract** A chilling account of more than half a century of nuclear catastrophes, by the author of the “definitive” (Economist) Cold War history, Nuclear Folly. Almost 145,000 Americans fled their homes in and around Harrisburg, Pennsylvania, in late March 1979, hoping to save themselves from an invisible enemy: radiation. The reactor at the nearby Three Mile Island nuclear power plant had gone into partial meltdown, and scientists feared an explosion that could spread radiation throughout the eastern United States. Thankfully, the explosion never took place—but the accident left deep scars in the American psyche, all but ending the nation’s love affair with nuclear power. In Atoms and Ashes, Serhii Plokhy recounts the dramatic history of Three Mile Island and five more accidents that have dogged the nuclear industry in its military and civil incarnations: the disastrous fallout caused by the testing of the hydrogen bomb in the Bikini Atoll in 1954; the Kyshtym nuclear disaster in the USSR, which polluted a good part of the Urals; the Windscale fire, the worst nuclear accident in the UK’s history; back to the USSR with Chernobyl, the result of a flawed reactor design leading to the exodus of 350,000 people; and, most recently, Fukushima in Japan,

triggered by an earthquake and a tsunami, a disaster on a par with Chernobyl and whose clean-up will not take place in our lifetime. Through the stories of these six terrifying incidents, Plokhy explores the risks of nuclear power, both for military and peaceful purposes, while offering a vivid account of how individuals and governments make decisions under extraordinary circumstances. Today, there are 440 nuclear reactors operating throughout the world, with nuclear power providing 10 percent of global electricity. Yet as the world seeks to reduce carbon emissions to combat climate change, the question arises: Just how safe is nuclear energy?

**Date** 2022-05-17

**Language** English

**Short Title** Atoms and Ashes

**Library Catalog** Amazon

**Publisher** W. W. Norton & Company

**# of Pages** 364

**Date Added** 5/13/2025, 4:57:46 PM

**Modified** 5/13/2025, 6:23:10 PM

## Attachments

- Amazon.com Link
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## Before the Fallout: From Marie Curie to Hiroshima

**Item Type** Book

**Author** Diana Preston

**Abstract** In 1898, Marie Curie first described a phenomenon she called "radioactivity." A half-century later, two physicists would stand before dawn in the New Mexico desert, slathering themselves with sunscreen-and fearing that the imminent test detonation might ignite Earth's atmosphere in a cataclysmic chain reaction and transform our planet into a burning star. This is the epic story of Curie's quest to unlock the secrets of the material world; of the scientists-Rutherford, Bohr, Einstein, Oppenheimer-who built upon her work; of the day the first weapon of mass destruction dropped on Hiroshima, bringing both sudden terror and sudden peace, and of the new era of global uncertainty that emerged in its wake. With the clarity of great science writing, the vividness of historical narrative and the insight of biography, Before the Fallout is an unforgettable and sweeping account of the scientific discovery that changed the world.

**Date** 2006

**Language** English

**Short Title** Before the Fallout

**Library Catalog** Amazon

**Place** New York

**Publisher** Penguin Publishing Group

**ISBN** 978-0-425-20789-5

**# of Pages** 400  
**Date Added** 1/19/2026, 3:53:19 PM  
**Modified** 1/19/2026, 3:53:19 PM

## Attachments

- Amazon.com Link
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## Chain Reactions: The Hopeful History of Uranium

**Item Type** Book  
**Author** Lucy Jane Santos  
**Abstract** Tracing uranium's past—and how it intersects with our understanding of other radioactive elements—Chain Reactions aims to enlighten readers and refresh our attitudes about the atomic world. Chain Reactions looks at the fascinating, often-forgotten stories that can be found throughout the history of uranium. From glassworks to penny stocks; from medicines to atomic weapons; from something to be feared to a powerful source of energy, this global history explores the scientific narrative of this unique element, but also shines a light on its cultural and social impact. By understanding our nuclear past, we can move beyond the ideological opposition to technologies and encourage a more nuanced dialogue about whether it is feasible—and desirable—to have a genuinely nuclear-powered future.  
**Date** 2024-11-05  
**Language** English  
**Short Title** Chain Reactions  
**Library Catalog** Amazon  
**URL** <https://www.simonandschuster.com/books/Chain-Reactions/Lucy-Jane-Santos/9781639367443>  
**Place** New York  
**Publisher** Pegasus Books  
**ISBN** 978-1-63936-744-3  
**# of Pages** 288  
**Date Added** 5/13/2025, 4:32:55 PM  
**Modified** 5/13/2025, 4:33:34 PM

## Attachments

- Amazon.com Link
  - Snapshot
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# Chernobyl 01:23:40: The Incredible True Story of the World's Worst Nuclear Disaster

**Item Type** Book

**Author** Andrew Leatherbarrow

**Editor** Elizabeth Petrey

**Abstract** At 01:23:40 on April 26th 1986, Alexander Akimov pressed the emergency shutdown button at Chernobyl's fourth nuclear reactor. It was an act that forced the permanent evacuation of a city, killed thousands and crippled the Soviet Union. The event spawned decades of conflicting, exaggerated and inaccurate stories. This book, the result of five years of research, presents an accessible but comprehensive account of what really happened. From the desperate fight to prevent a burning reactor core from irradiating eastern Europe, to the self-sacrifice of the heroic men who entered fields of radiation so strong that machines wouldn't work, to the surprising truth about the legendary 'Chernobyl divers', all the way through to the USSR's final show-trial. The historical narrative is interwoven with a story of the author's own spontaneous journey to Ukraine's still-abandoned city of Pripyat and the wider Chernobyl Zone. Complete with over 45 pages of photographs of modern-day Pripyat and technical diagrams of the power station, Chernobyl 01:23:40 is a fascinating new account of the world's worst nuclear disaster.

**Date** 2016-04-26

**Language** English

**Short Title** Chernobyl 01

**Library Catalog** Amazon

**Publisher** Amazon Digital Services

**# of Pages** 269

**Date Added** 5/13/2025, 6:22:41 PM

**Modified** 5/13/2025, 6:22:41 PM

## Attachments

- [Amazon.com Link](#)

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# Chernobyl: The History of a Nuclear Catastrophe

**Item Type** Book

**Author** Serhii Plokhy

**Abstract** A Chernobyl survivor and the New York Times bestselling author of *The Gates of Europe* "mercilessly chronicles the absurdities of the Soviet system" in this "vividly empathetic" account of the worst nuclear accident in history (*Wall Street Journal*). On the morning of April 26, 1986, Europe witnessed the worst nuclear disaster in history: the explosion of a reactor at the Chernobyl Nuclear Power Plant in Soviet Ukraine. Dozens died of radiation poisoning, fallout contaminated half the continent, and thousands fell ill. In Chernobyl, Serhii Plokhy draws on new sources to tell the

dramatic stories of the firefighters, scientists, and soldiers who heroically extinguished the nuclear inferno. He lays bare the flaws of the Soviet nuclear industry, tracing the disaster to the authoritarian character of the Communist party rule, the regime's control over scientific information, and its emphasis on economic development over all else. Today, the risk of another Chernobyl looms in the mismanagement of nuclear power in the developing world. A moving and definitive account, Chernobyl is also an urgent call to action.

**Date** 2018-05-15

**Language** English

**Short Title** Chernobyl

**Library Catalog** Amazon

**Place** New York, NY

**Publisher** Basic Books

**ISBN** 978-1-5416-1709-4

**Edition** 1st ed

**# of Pages** 500

**Date Added** 1/20/2025, 9:45:18 AM

**Modified** 1/19/2026, 3:31:53 PM

## Attachments

- Amazon.com Link
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## Command and Control: Nuclear Weapons, the Damascus Accident, and the Illusion of Safety

**Item Type** Book

**Author** Eric Schlosser

**Abstract** The Oscar-shortlisted documentary Command and Control, directed by Robert Kenner, finds its origins in Eric Schlosser's book and continues to explore the little-known history of the management and safety concerns of America's nuclear arsenal.“A devastatingly lucid and detailed new history of nuclear weapons in the U.S. Fascinating.”—Lev Grossman, TIME Magazine“Perilous and gripping . . . Schlosser skillfully weaves together an engrossing account of both the science and the politics of nuclear weapons safety.”—San Francisco ChronicleA myth-shattering exposé of America’s nuclear weaponsFamed investigative journalist Eric Schlosser digs deep to uncover secrets about the management of America’s nuclear arsenal. A groundbreaking account of accidents, near misses, extraordinary heroism, and technological breakthroughs, Command and Control explores the dilemma that has existed since the dawn of the nuclear age: How do you deploy weapons of mass destruction without being destroyed by them? That question has never been resolved—and Schlosser reveals how the combination of human fallibility and technological complexity still poses a grave risk to mankind. While the harms of global warming increasingly dominate the news, the equally dangerous yet more immediate threat of

nuclear weapons has been largely forgotten. Written with the vibrancy of a first-rate thriller, *Command and Control* interweaves the minute-by-minute story of an accident at a nuclear missile silo in rural Arkansas with a historical narrative that spans more than fifty years. It depicts the urgent effort by American scientists, policy makers, and military officers to ensure that nuclear weapons can't be stolen, sabotaged, used without permission, or detonated inadvertently. Schlosser also looks at the Cold War from a new perspective, offering history from the ground up, telling the stories of bomber pilots, missile commanders, maintenance crews, and other ordinary servicemen who risked their lives to avert a nuclear holocaust. At the heart of the book lies the struggle, amid the rolling hills and small farms of Damascus, Arkansas, to prevent the explosion of a ballistic missile carrying the most powerful nuclear warhead ever built by the United States. Drawing on recently declassified documents and interviews with people who designed and routinely handled nuclear weapons, *Command and Control* takes readers into a terrifying but fascinating world that, until now, has been largely hidden from view. Through the details of a single accident, Schlosser illustrates how an unlikely event can become unavoidable, how small risks can have terrible consequences, and how the most brilliant minds in the nation can only provide us with an illusion of control. Audacious, gripping, and unforgettable, *Command and Control* is a tour de force of investigative journalism, an eye-opening look at the dangers of America's nuclear age.

**Date** 2014-08-26

**Language** English

**Short Title** Command and Control

**Library Catalog** Amazon

**Place** New York

**Publisher** Penguin Books

**ISBN** 978-0-14-312578-5

**Edition** Reprint edition

**# of Pages** 656

**Date Added** 5/13/2025, 4:49:39 PM

**Modified** 5/13/2025, 4:49:39 PM

## Attachments

- [Amazon.com Link](#)

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## Confessions of a Rogue Nuclear Regulator

**Item Type** Book

**Author** Gregory B. Jaczko

**Abstract** A shocking exposé from the most powerful insider in nuclear regulation about how the nuclear energy industry endangers our lives—and why Congress does nothing to stop it. Gregory Jaczko had never heard of the Nuclear Regulatory Commission when he arrived in Washington like a modern-day Mr. Smith. But, thanks to the determination

of a powerful senator, he would soon find himself at the agency's helm. A Birkenstocks-wearing physics PhD, Jaczko was unlike any chairman the agency had ever seen: he was driven by a passion for technology and a concern for public safety, with no ties to the industry and no agenda other than to ensure that his agency made the world a safer place. And so Jaczko witnessed what outsiders like him were never meant to see—an agency overpowered by the industry it was meant to regulate and a political system determined to keep it that way. After an emergency trip to Japan to help oversee the frantic response to the horrifying nuclear disaster at Fukushima in 2011, and witnessing the American nuclear industry's refusal to make the changes he considered necessary to prevent an equally catastrophic event from occurring here, Jaczko started saying aloud what no one else had dared. *Confessions of a Rogue Nuclear Regulator* is a wake-up call to the dangers of lobbying, the importance of governmental regulation, and the failures of congressional oversight. But it is also a classic tale of an idealist on a mission whose misadventures in Washington are astounding, absurd, and sometimes even funny—and Jaczko tells the story with humor, self-deprecation, and, yes, occasional bursts of outrage. Above all, *Confessions of a Rogue Nuclear Regulator* is a tale of confronting the truth about one of the most pressing public safety and environmental issues of our time: nuclear power will never be safe.

**Date** January 15, 2019

**Language** English

**Library Catalog** Amazon

**Publisher** Simon & Schuster

**Edition** Reprint edition

**# of Pages** 209

**Date Added** 1/21/2020, 3:07:13 PM

**Modified** 1/21/2020, 3:07:13 PM

## Attachments

- [Amazon.com Link](#)
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## Countdown to Zero Day: Stuxnet and the Launch of the World's First Digital Weapon

**Item Type** Book

**Author** Kim Zetter

**Abstract** Top cybersecurity journalist Kim Zetter tells the story behind the virus that sabotaged Iran's nuclear efforts and shows how its existence has ushered in a new age of warfare—one in which a digital attack can have the same destructive capability as a megaton bomb. In January 2010, inspectors with the International Atomic Energy Agency noticed that centrifuges at an Iranian uranium enrichment plant were failing at an unprecedented rate. The cause was a complete mystery—apparently as much to the technicians replacing the centrifuges as to the inspectors observing them. Then, five months later, a seemingly unrelated event occurred: A computer security firm in

Belarus was called in to troubleshoot some computers in Iran that were crashing and rebooting repeatedly. At first, the firm's programmers believed the malicious code on the machines was a simple, routine piece of malware. But as they and other experts around the world investigated, they discovered a mysterious virus of unparalleled complexity. They had, they soon learned, stumbled upon the world's first digital weapon. For Stuxnet, as it came to be known, was unlike any other virus or worm built before: Rather than simply hijacking targeted computers or stealing information from them, it escaped the digital realm to wreak actual, physical destruction on a nuclear facility. In these pages, Wired journalist Kim Zetter draws on her extensive sources and expertise to tell the story behind Stuxnet's planning, execution, and discovery, covering its genesis in the corridors of Bush's White House and its unleashing on systems in Iran—and telling the spectacular, unlikely tale of the security geeks who managed to unravel a sabotage campaign years in the making. But Countdown to Zero Day ranges far beyond Stuxnet itself. Here, Zetter shows us how digital warfare developed in the US. She takes us inside today's flourishing zero-day "grey markets," in which intelligence agencies and militaries pay huge sums for the malicious code they need to carry out infiltrations and attacks. She reveals just how vulnerable many of our own critical systems are to Stuxnet-like strikes, from nation-state adversaries and anonymous hackers alike—and shows us just what might happen should our infrastructure be targeted by such an attack. Propelled by Zetter's unique knowledge and access, and filled with eye-opening explanations of the technologies involved, Countdown to Zero Day is a comprehensive and prescient portrait of a world at the edge of a new kind of war.

**Date** November 11, 2014

**Language** English

**Short Title** Countdown to Zero Day

**Library Catalog** Amazon

**Place** New York

**Publisher** Crown

**ISBN** 978-0-7704-3617-9

**Edition** 1st edition

**# of Pages** 448

**Date Added** 1/21/2020, 2:11:01 PM

**Modified** 1/21/2020, 2:11:01 PM

## Attachments

- [Amazon.com Link](#)

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## Dark Sun: The Making of the Hydrogen Bomb

**Item Type** Book

**Author** Richard Rhodes

**Abstract** 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.

**Date** August 6, 1996

**Language** English

**Short Title** Dark Sun

**Library Catalog** Amazon

**Place** New York, N.Y

**Publisher** Simon & Schuster

**ISBN** 978-0-684-82414-7

**Edition** Reprint edition

**# of Pages** 736

**Date Added** 1/21/2020, 2:08:27 PM

**Modified** 1/21/2020, 2:08:27 PM

## Attachments

- Amazon.com Link
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## Energy is Life: Why Environmentalism Went Nuclear

**Item Type** Book

**Author** Zion Lights

**Abstract** Energy is Life: Why Environmentalism Went Nuclear follows Zion Lights's personal and powerful journey: from grassroots green activism to becoming one of the UK's leading advocates for nuclear energy. In a time of climate crisis, energy poverty and growing demand for clean power, she examines why long-established environmentalists like herself once feared nuclear energy, why many have since come to embrace it, and makes a compelling case for why nuclear energy must be part of the solution. Accessible, evidence-based, and deeply human, this book challenges common myths and invites readers to rethink what it really means to care for people and planet alike. If you believe in a greener, fairer future, this book just might change your mind – and give you hope.

**Date** 2026

**Language** English

**Short Title** Energy is Life

**Library Catalog** Amazon

**Place** London

**Publisher** Unicorn

**ISBN** 978-1-918271-05-8

**# of Pages** 300

**Date Added** 1/19/2026, 3:30:40 PM

**Modified** 1/19/2026, 3:30:40 PM

## Attachments

- Amazon.com Link
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## Fukushima: The Story of a Nuclear Disaster

**Item Type** Book

**Author** David Lochbaum

**Author** Edwin Lyman

**Author** Susan Q. Stranahan

**Abstract** “A gripping, suspenseful page-turner” (Kirkus Reviews) with a “fast-paced, detailed narrative that moves like a thriller” (International Business Times), Fukushima teams two leading experts from the Union of Concerned Scientists, David Lochbaum and Edwin Lyman, with award-winning journalist Susan Q. Stranahan to give us the first definitive account of the 2011 disaster that led to the worst nuclear catastrophe since Chernobyl. Four years have passed since the day the world watched in horror as an earthquake large enough to shift the Earth’s axis by several inches sent a massive tsunami toward the Japanese coast and Fukushima Daiichi nuclear power plant, causing the reactors’ safety systems to fail and explosions to reduce concrete and steel buildings to rubble. Even as the consequences of the 2011 disaster continue to exact their terrible price on the people of Japan and on the world, Fukushima addresses the grim questions at the heart of the nuclear debate: could a similar catastrophe happen again, and—most important of all—how can such a crisis be averted?

**Date** February 10, 2015

**Language** English

**Short Title** Fukushima

**Library Catalog** Amazon

**Place** New York

**Publisher** The New Press

**ISBN** 978-1-59558-908-8

**Edition** Reprint edition

**# of Pages** 319

**Date Added** 1/21/2020, 2:08:04 PM

**Modified** 1/21/2020, 2:52:03 PM

## Attachments

- Amazon.com Link
  - Amazon.com Link
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## Full Body Burden: Growing Up in the Nuclear Shadow of Rocky Flats

**Item Type** Book

**Author** Kristen Iversen

**Abstract** Full Body Burden is a haunting work of narrative nonfiction about a young woman, Kristen Iversen, growing up in a small Colorado town close to Rocky Flats, a secret nuclear weapons plant once designated "the most contaminated site in America." It's the story of a childhood and adolescence in the shadow of the Cold War, in a landscape at once startlingly beautiful and--unknown to those who lived there--tainted with invisible yet deadly particles of plutonium. It's also a book about the destructive power of secrets--both family and government. Her father's hidden liquor bottles, the strange cancers in children in the neighborhood, the truth about what was made at Rocky Flats (cleaning supplies, her mother guessed)--best not to inquire too deeply into any of it. But as Iversen grew older, she began to ask questions. She learned about the infamous 1969 Mother's Day fire, in which a few scraps of plutonium spontaneously ignited and--despite the desperate efforts of firefighters--came perilously close to a "criticality," the deadly blue flash that signals a nuclear chain reaction. Intense heat and radiation almost melted the roof, which nearly resulted in an explosion that would have had devastating consequences for the entire Denver metro area. Yet the only mention of the fire was on page 28 of the Rocky Mountain News, underneath a photo of the Pet of the Week. In her early thirties, Iversen even worked at Rocky Flats for a time, typing up memos in which accidents were always called "incidents." And as this memoir unfolds, it reveals itself as a brilliant work of investigative journalism--a detailed and shocking account of the government's sustained attempt to conceal the effects of the toxic and radioactive waste released by Rocky Flats, and of local residents' vain attempts to seek justice in court. Here, too, are vivid portraits of former Rocky Flats workers--from the healthy, who regard their work at the plant with pride and patriotism, to the ill or dying, who battle for compensation for cancers they got on the job. Based on extensive interviews, FBI and EPA documents, and class-action testimony, this taut, beautifully written book promises to have a very long half-life.

**Date** June 5, 2012

**Language** English

**Short Title** Full Body Burden

**Library Catalog** Amazon

**Place** New York

**Publisher** Crown

**ISBN** 978-0-307-95563-0

**Edition** 1 edition

**# of Pages** 416

**Date Added** 1/21/2020, 2:04:49 PM

**Modified** 1/21/2020, 2:04:49 PM

## Attachments

- Amazon.com Link
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## Half Lives: The Unlikely History of Radium

**Item Type** Book

**Author** Lucy Jane Santos

**Abstract** The fascinating, curious, and sometimes macabre history of radium as seen in its uses in everyday life. Of all the radioactive elements discovered at the end of the nineteenth century, it was radium that became the focus of both public fascination and entrepreneurial zeal. Half Lives tells the fascinating, curious, sometimes macabre story of the element through its ascendance as a desirable item – a present for a queen, a prize in a treasure hunt, a glow-in- the-dark dance costume – to its role as a supposed cure-all in everyday twentieth-century life, when medical practitioners and business people (reputable and otherwise) devised ingenious ways of commodifying the new wonder element, and enthusiastic customers welcomed their radioactive wares into their homes. Lucy Jane Santos—herself the proud owner of a formidable collection of radium beauty treatments—delves into the stories of these products and details the gradual downfall and discredit of the radium industry through the eyes of the people who bought, sold and eventually came to fear the once-fetishized substance. Half Lives is a new history of radium as part of a unique examination of the interplay between science and popular culture.

**Date** 2021-07-06

**Language** English

**Short Title** Half Lives

**Library Catalog** Amazon

**Publisher** Pegasus Books

**# of Pages** 287

**Date Added** 5/13/2025, 4:33:54 PM

**Modified** 5/13/2025, 4:33:54 PM

## Attachments

- Amazon.com Link
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## Hiroshima, Nagasaki: the real story of the atomic bombings and their aftermath

**Item Type** Book

**Author** Paul Ham

**Date** 2014

**Language** eng

**Short Title** Hiroshima, Nagasaki  
**Library Catalog** K10plus ISBN  
**Place** New York, NY  
**Publisher** Thomas Dunne Books, St. Martin's Press  
**ISBN** 978-1-250-04711-3  
**Edition** First U.S. ed  
**# of Pages** 629  
**Date Added** 1/20/2025, 9:51:30 AM  
**Modified** 1/20/2025, 9:51:30 AM

### Notes:

Includes bibliographical references (pages 581-601) and index

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## How to Avoid a Climate Disaster: The Solutions We Have and the Breakthroughs We Need

**Item Type** Book  
**Author** Bill Gates  
**Abstract** In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical--and accessible--plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe.Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal.He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions--suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise.As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.  
**Date** February 16, 2021  
**Language** English  
**Short Title** How to Avoid a Climate Disaster  
**Library Catalog** Amazon  
**Publisher** Knopf

**# of Pages** 256  
**Date Added** 2/19/2021, 9:10:43 AM  
**Modified** 2/19/2021, 9:10:43 AM

## Attachments

- Amazon.com Link
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## How to Drive a Nuclear Reactor

**Item Type** Book  
**Author** Colin Tucker  
**Abstract** Have you ever wondered how a nuclear power station works? This lively book will answer that question. It'll take you on a journey from the science behind nuclear reactors, through their start-up, operation and shutdown. Along the way it covers a bit of the engineering, reactor history, different kinds of reactors and what can go wrong with them. Much of this is seen from the viewpoint of a trainee operator on a Pressurised Water Reactor - the most common type of nuclear reactor in the world. Colin Tucker has spent the last thirty years keeping reactors safe. Join him on a tour that is the next best thing to driving a nuclear reactor yourself!

**Date** 2020  
**Language** English  
**Library Catalog** Amazon  
**Place** Cham  
**Publisher** Springer  
**ISBN** 978-3-030-33876-3  
**# of Pages** 286  
**Date Added** 1/19/2026, 3:50:55 PM  
**Modified** 1/19/2026, 3:50:55 PM

## Attachments

- Amazon.com Link
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## Idaho Falls: The Untold Story of America's First Nuclear Accident

**Item Type** Book  
**Author** William McKeown  
**Abstract** The little-known true story of a mysterious nuclear reactor disaster—years before Three Mile Island, Chernobyl, or Fukushima. Before the Three Mile Island incident or the Chernobyl disaster, the world's first nuclear reactor meltdown to claim lives happened on US soil. Chronicled here for the first time is the strange tale of SL-1, an

experimental military reactor located in Idaho's Lost River Desert that exploded on the night of January 3, 1961, killing the three crewmembers on duty. Through exclusive interviews with the victims' families and friends, firsthand accounts from rescue workers and nuclear industry insiders, and extensive research into official documents, journalist William McKeown probes the many questions surrounding this devastating blast that have gone unanswered for decades. From reports of faulty design and mismanagement to incompetent personnel and even rumors of sabotage after a failed love affair, these plausible explanations raise startling new questions about whether the truth was deliberately suppressed to protect the nuclear energy industry.

**Date** April 1, 2003

**Language** English

**Short Title** Idaho Falls

**Library Catalog** Amazon

**Publisher** ECW Press

**Edition** Teacher ed. edition

**# of Pages** 269

**Date Added** 1/21/2020, 2:22:06 PM

**Modified** 9/14/2025, 3:21:34 PM

## Attachments

- Amazon.com Link
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## Midnight in Chernobyl: the untold story of the world's greatest nuclear disaster

**Item Type** Book

**Author** Adam Higginbotham

**Abstract** "Journalist Adam Higginbotham's definitive, years-in-the-making account of the Chernobyl nuclear power plant disaster--and a powerful investigation into how propaganda, secrecy, and myth have obscured the true story of one of the twentieth century's greatest disasters. Early in the morning of April 26, 1986, Reactor Number Four of the Chernobyl Atomic Energy Station exploded, triggering history's worst nuclear disaster. In the thirty years since then, Chernobyl has become lodged in the collective nightmares of the world: shorthand for the spectral horrors of radiation poisoning, for a dangerous technology slipping its leash, for ecological fragility, and for what can happen when a dishonest and careless state endangers its citizens and the entire world. But the real story of the accident, clouded from the beginning by secrecy, propaganda, and misinformation, has long remained in dispute. Drawing on hundreds of hours of interviews conducted over the course of more than ten years, as well as letters, unpublished memoirs, and documents from recently-declassified archives, Adam Higginbotham has written a harrowing and compelling narrative which brings the disaster to life through the eyes of the men and women who witnessed it firsthand. The result is a masterful nonfiction thriller, and the definitive account of an event that changed history: a story that is more complex, more human, and more terrifying than the Soviet myth. *Midnight in Chernobyl* is an indelible portrait of one of the great

disasters of the twentieth century, of human resilience and ingenuity, and the lessons learned when mankind seeks to bend the natural world to his will--lessons which, in the face of climate change and other threats, remain not just vital but necessary"--

**Date** 2019

**Short Title** Midnight in Chernobyl

**Library Catalog** Library of Congress ISBN

**Call Number** TK1362.U38 H54 2019

**Extra** OCLC: on1083671410

**Place** New York ; London ; Toronto ; Sydney ; New Delhi

**Publisher** Simon & Schuster

**ISBN** 978-1-5011-3461-6

**Edition** First Simon & Schuster hardcover edition

**# of Pages** 538

**Date Added** 1/20/2025, 9:46:32 AM

**Modified** 9/14/2025, 3:21:55 PM

## Tags:

Nuclear power plants, Accidents, SCIENCE / Physics / Nuclear, 1986, Chernobyl Nuclear Accident (Chornobyl', Ukraine : 1986), Chernobyl Nuclear Accident, Chornobyl', Ukraine, 1986, Chernobyl Nuclear Accident, Chornobyl', Ukraine, 1986, Chornobyl', HISTORY / Modern / 20th Century, HISTORY / Russia & the Former Soviet Union, Nonfiction, Ukraine, Ukraine Chornobyl'

## Notes:

Part 1. Birth of a city. The Soviet Prometheus -- Alpha, beta, gamma -- Friday, April 25, 5:00 p.m., Pripyat -- Secrets of the peaceful atom -- Friday, April 25, 11:55 p.m., Unit Control Room Number Four -- Saturday, April 26, 1:28 a.m., Paramilitary Fire Station Number Two -- Saturday, 1:30 a.m., Kiev ; Saturday, 6:15 a.m., Pripyat -- Sunday, April 27, Pripyat -- Part 2. Death of an empire. The cloud -- The China Syndrome -- The battle of Chernobyl -- Inside Hospital Number Six -- The liquidators -- The investigation -- The sarcophagus -- The forbidden zone -- The trial -- The elephant's foot -- A tomb for Valery Khodemchuk

## Attachments

- Amazon.com Link

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## Nuclear Power Is Not the Answer

**Item Type** Book

**Author** Helen Caldicott

**Abstract** The world-renowned antinuclear activist's myth-busting look at the real costs and consequences of nuclear energy."Dr. Caldicott is one of the most articulate and passionate advocates of citizen action to remedy the nuclear and environmental crises."from the citation for the 2003 Lannan Cultural Freedom PrizeIn a world torn apart by wars over oil, many politicians are increasingly looking for alternative sources of energyand their leading choice is often nuclear. Among the myths that have been spread over the years about nuclear-powered electricity are that it does not cause global warming or pollution (i.e., that it is "clean and green"), that it is inexpensive, and that it is safe. But the facts belie the barrage of nuclear industry propaganda: Nuclear power contributes to global warming The real costs of nuclear power are prohibitive (and taxpayers pick up most of them) There's not enough uranium in the world to sustain long-term nuclear power Potential for a catastrophic accident or terrorist attack far outweighs any benefits.Trained as a physician, andafter four decades of antinuclear activismthoroughly versed in the science of nuclear energy, the bestselling author of Nuclear Madness and Missile Envy here turns her attention from nuclear bombs to nuclear lightbulbs. As she makes meticulously clear in this damning book, the world cannot withstand either.

**Date** 2006-08-15

**Language** English

**Library Catalog** Amazon

**Call Number** HD9698.U52 C33 2006

**Extra** OCLC: ocm63165029

**Place** New York

**Publisher** New Press

**ISBN** 978-1-59558-067-2

**Edition** 1st edition

**# of Pages** 128

**Date Added** 1/20/2025, 9:42:02 AM

**Modified** 5/13/2025, 5:02:36 PM

## Tags:

Energy policy, Nuclear power plants, Prevention, United States, Nuclear energy, Global warming, Nuclear industry

## Attachments

- Amazon.com Link
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## Nuclear War: A Scenario

**Item Type** Book

**Author** Annie Jacobsen

**Abstract** The INSTANT New York Times bestseller Instant Los Angeles Times bestsellerOne of NPR's Books We LoveOne of Newsweek Staffers' Favorite Books of the YearShortlisted for the Baillie Gifford Prize“In Nuclear War: A Scenario, Annie Jacobsen gives us a vivid picture of what could happen if our nuclear guardians fail... Terrifying.”—Wall Street Journal There is only one scenario other than an asteroid strike that could end the world as we know it in a matter of hours: nuclear war. And one of the triggers for that war would be a nuclear missile inbound toward the United States. Every generation, a journalist has looked deep into the heart of the nuclear military establishment: the technologies, the safeguards, the plans, and the risks. These investigations are vital to how we understand the world we really live in—where one nuclear missile will beget one in return, and where the choreography of the world’s end requires massive decisions made on seconds’ notice with information that is only as good as the intelligence we have. Pulitzer Prize finalist Annie Jacobsen’s Nuclear War: A Scenario explores this ticking-clock scenario, based on dozens of exclusive new interviews with military and civilian experts who have built the weapons, have been privy to the response plans, and have been responsible for those decisions should they have needed to be made. Nuclear War: A Scenario examines the handful of minutes after a nuclear missile launch. It is essential reading, and unlike any other book in its depth and urgency.

**Date** 2024-03-26

**Language** English

**Short Title** Nuclear War

**Library Catalog** Amazon

**Place** New York

**Publisher** Dutton

**ISBN** 978-0-593-47609-3

**# of Pages** 400

**Date Added** 5/13/2025, 4:50:51 PM

**Modified** 5/13/2025, 4:50:51 PM

## Attachments

- Amazon.com Link
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Plentiful Energy: The Story of the Integral Fast Reactor: The complex history of a simple reactor technology, with emphasis on its scientific bases for non-specialists

**Item Type** Book

**Author** Charles E. Till

**Author** Yoon Il Chang

**Abstract** The Integral Fast Reactor (IFR) is a fast reactor system developed at Argonne National Laboratory in the decade 1984 to 1994. The IFR project developed the technology for a complete system; the reactor, the entire fuel cycle and the waste management technologies were all included in the development program. The reactor concept had

important features and characteristics that were completely new and fuel cycle and waste management technologies that were entirely new developments. The reactor is a “fast” reactor – that is, the chain reaction is maintained by “fast” neutrons with high energy – which produces its own fuel. The IFR reactor and associated fuel cycle is a closed system. Electrical power is generated, new fissile fuel is produced to replace the fuel burned, its used fuel is processed for recycling by pyroprocessing – a new development – and waste is put in final form for disposal. All this is done on one self-sufficient site. The scale and duration of the project and its funding made it the largest nuclear energy R and D program of its day. Its purpose was the development of a long term massive new energy source, capable of meeting the nation’s electrical energy needs in any amount, and for as long as it is needed, forever, if necessary. Safety, non-proliferation and waste toxicity properties were improved as well, these three the characteristics most commonly cited in opposition to nuclear power. Development proceeded from success to success. Most of the development had been done when the program was abruptly cancelled by the newly elected Clinton Administration. In his 1994 State of the Union address the president stated that “unnecessary programs in advanced reactor development will be terminated.” The IFR was that program. This book gives the real story of the IFR, written by the two nuclear scientists who were most deeply involved in its conception, the development of its R and D program, and its management. Between the scientific and engineering papers and reports, and books on the IFR, and the non-technical and often impassioned dialogue that continues to this day on fast reactor technology, we felt there is room for a volume that, while accurate technically, is written in a manner accessible to the non-specialist and even to the non-technical reader who simply wants to know what this technology is.

**Date** December 6, 2011

**Language** English

**Short Title** Plentiful Energy

**Library Catalog** Amazon

**Place** United States

**Publisher** CreateSpace Independent Publishing Platform

**ISBN** 978-1-4663-8460-6

**# of Pages** 404

**Date Added** 1/21/2020, 2:00:43 PM

**Modified** 1/21/2020, 2:00:43 PM

## Attachments

- Amazon.com Link

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## Plutonium: a history of the world's most dangerous element

**Item Type** Book

**Author** Jeremy Bernstein

**Date** 2007

**Language** eng  
**Short Title** Plutonium  
**Library Catalog** K10plus ISBN  
**Place** Washington, DC  
**Publisher** Joseph Henry Press  
**ISBN** 978-0-309-10296-4  
**Series** A Joseph Henry Press Book  
**# of Pages** 194  
**Date Added** 1/20/2025, 9:38:07 AM  
**Modified** 1/20/2025, 9:38:07 AM

### Notes:

Includes index

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Preamble -- The history of uranium -- The periodic table -- Frau Röntgen's hand -- Close calls -- Fissions -- Transuranics -- Plutonium goes to war -- Los Alamos -- Electrons -- Now what?

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## Plutopia: Nuclear Families, Atomic Cities, and the Great Soviet and American Plutonium Disasters

**Item Type** Book  
**Author** Kate Brown  
**Abstract** While many transnational histories of the nuclear arms race have been written, Kate Brown provides the first definitive account of the great plutonium disasters of the United States and the Soviet Union. In Plutopia, Brown draws on official records and dozens of interviews to tell the extraordinary stories of Richland, Washington and Ozersk, Russia-the first two cities in the world to produce plutonium. To contain secrets, American and Soviet leaders created plutopias--communities of nuclear families living in highly-subsidized, limited-access atomic cities. Fully employed and medically monitored, the residents of Richland and Ozersk enjoyed all the pleasures of consumer society, while nearby, migrants, prisoners, and soldiers were banned from plutopia--they lived in temporary "staging grounds" and often performed the most dangerous work at the plant. Brown shows that the plants' segregation of permanent and temporary workers and of nuclear and non-nuclear zones created a bubble of immunity, where dumps and accidents were glossed over and plant managers freely embezzled and polluted. In four decades, the Hanford plant near Richland and the Maiak plant near Ozersk each issued at least 200 million curies of radioactive isotopes into the surrounding environment--equaling four Chernobyls--laying waste to hundreds of square miles and contaminating rivers, fields, forests, and food supplies. Because of the decades of secrecy, downwind and downriver neighbors of the plutonium plants had difficulty proving what they suspected, that the rash of illnesses, cancers, and birth defects in their communities were caused by the plants' radioactive emissions. Plutopia

was successful because in its zoned-off isolation it appeared to deliver the promises of the American dream and Soviet communism; in reality, it concealed disasters that remain highly unstable and threatening today. An untold and profoundly important piece of Cold War history, *Plutopia* invites readers to consider the nuclear footprint left by the arms race and the enormous price of paying for it.

**Date** 2013-03-15

**Language** English

**Short Title** *Plutopia*

**Library Catalog** Amazon

**Publisher** Oxford University Press

**Edition** Illustrated edition

**# of Pages** 416

**Date Added** 5/13/2025, 6:26:23 PM

**Modified** 5/13/2025, 6:26:23 PM

## Attachments

- Amazon.com Link
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## Power to Save the World: The Truth About Nuclear Energy

**Item Type** Book

**Author** Gwyneth Cravens

**Author** Richard Rhodes

**Abstract** An informed look at the myths and fears surrounding nuclear energy, and a practical, politically realistic solution to global warming and our energy needs. Faced by the world's oil shortages and curious about alternative energy sources, Gwyneth Cravens skeptically sets out to find the truth about nuclear energy. Her conclusion: it is a totally viable and practical solution to global warming. In the end, we see that if we are to care for subsequent generations, embracing nuclear energy is an ethical imperative.

**Date** 2010-12-01

**Language** English

**Short Title** Power to Save the World

**Library Catalog** Amazon

**Publisher** Vintage

**Edition** Reprint edition

**# of Pages** 439

**Date Added** 5/13/2025, 4:47:06 PM

**Modified** 5/13/2025, 4:47:06 PM

## Attachments

- Amazon.com Link

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## Restricted Data: The History of Nuclear Secrecy in the United States

**Item Type** Book

**Author** Alex Wellerstein

**Abstract** “Groundbreaking . . . Wellerstein peels back the layers of the nuclear onion to reveal a rich debate about what should be kept secret and why.” —NatureThe first full history of US nuclear secrecy, from its origins in the late 1930s to our post–Cold War present. The American atomic bomb was born in secrecy. From the moment scientists first conceived of its possibility to the bombings of Hiroshima and Nagasaki and beyond, there were efforts to control the spread of nuclear information and the newly discovered scientific facts that made such powerful weapons possible. The totalizing scientific secrecy that the atomic bomb appeared to demand was new, unusual, and very nearly unprecedented. It was foreign to American science and American democracy—and potentially incompatible with both. From the beginning, this secrecy was controversial, and it was always contested. The atomic bomb was not merely the application of science to war, but the result of decades of investment in scientific education, infrastructure, and global collaboration. If secrecy became the norm, how would science survive? Drawing on troves of declassified files, including records released by the government for the first time through the author’s efforts, Restricted Data traces the complex evolution of the US nuclear secrecy regime from the first whisper of the atomic bomb through the mounting tensions of the Cold War and into the early twenty-first century. A compelling history of powerful ideas at war, it tells a story that feels distinctly American: rich, sprawling, and built on the conflict between high-minded idealism and ugly, fearful power. “Wellerstein examines the health of democracy in the face of big science, big government, and big weapons.” —Science

**Date** 2021-04-09

**Language** English

**Short Title** Restricted Data

**Library Catalog** Amazon

**Publisher** The University of Chicago Press

**Edition** First edition

**# of Pages** 557

**Date Added** 5/13/2025, 5:06:36 PM

**Modified** 5/13/2025, 5:06:36 PM

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## Attachments

- Amazon.com Link
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## Romancing the Atom: Nuclear Infatuation from the Radium Girls to Fukushima

**Item Type** Book

**Author** Robert Johnson

**Abstract** This book presents a compelling account of atomic development over the last century that demonstrates how humans have repeatedly chosen to ignore the associated impacts for the sake of technological, scientific, military, and economic expediency. In 1945, Albert Einstein said, "The release of atomic power has changed everything except our way of thinking ... the solution to this problem lies in the heart of mankind." This statement seems more valid today than ever. Romancing the Atom: Nuclear Infatuation from the Radium Girls to Fukushima presents compelling moments that clearly depict the folly and shortsightedness of our "atomic mindset" and shed light upon current issues of nuclear power, waste disposal, and weapons development. The book consists of ten nonfiction historical vignettes, including the women radium dial painters of the 1920s, the expulsion of the Bikini Island residents to create a massive "petri dish" for post-World War II bomb and radiation testing, the government-subsidized uranium rush of the 1950s and its effects on Native American communities, and the secret radioactive material development facilities in residential neighborhoods. In addition, the book includes original interviews of prominent historians, writers, and private citizens involved with these poignant stories. More information is available online at [www.romancingtheatom.com](http://www.romancingtheatom.com). Draws from top-secret government and military documents from the history of atomic development, archival documents from the Library of Congress, and letters from Albert Einstein and other prominent scientists during the 1950s and 1960s. Presents chronological histories of events such as the displacement and relocation of the Bikini Islanders, uranium mines on Native American lands, and the cleanup of a secret uranium milling facility in a residential neighborhood in Oxford, Ohio. Contains various maps including radioactive cleanup sites in the United States and other parts of the world. Includes many photographs and illustrations that accompany the text. Provides a bibliography containing a significant collection of books, magazine articles, newspaper reports, movies, comics, government documents, and other related archival materials.

**Date** August 3, 2012

**Language** English

**Short Title** Romancing the Atom

**Library Catalog** Amazon

**URL** <https://www.amazon.com/Romancing-Atom-Nuclear-Infatuation-Fukushima-ebook/dp/B0C771L57R/>

**Place** Santa Barbara, Calif

**Publisher** Praeger

**ISBN** 978-0-313-39279-5

**Edition** Illustrated edition

**# of Pages** 217

**Date Added** 2/19/2021, 9:11:16 AM

**Modified** 1/19/2026, 3:42:49 PM

## Attachments

- [Amazon.com Link](#)

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## Shorting the Grid: The Hidden Fragility of Our Electric Grid

**Item Type** Book

**Author** Meredith Angwin

**Abstract** When rolling blackouts come to the electric grid, they will be old news to the grid insiders. Only the electricity customers will be surprised. Grid insiders know how fragile the grid is becoming. Unfortunately, they have no incentive to solve the problems because near-misses increase their profits. Meredith Angwin describes how closed meetings, arcane auction rules, and five-minute planning horizons will topple the reliability of our electric grid. Shorting the Grid shines light on our vulnerable grid. It also suggests actions that can support the grid that supports all of us.

**Date** October 19, 2020

**Language** English

**Short Title** Shorting the Grid

**Library Catalog** Amazon

**Publisher** Carnot Communications

**# of Pages** 442

**Date Added** 2/19/2021, 9:12:00 AM

**Modified** 2/19/2021, 9:12:00 AM

### Attachments

- Amazon.com Link
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## Station Blackout: Inside the Fukushima Nuclear Disaster and Recovery

**Item Type** Book

**Author** Charles A. Casto

**Abstract** On March 11, 2011, fifty minutes after a magnitude 9.0 earthquake hit eastern Japan, a tsunami 45-feet high engulfed the nuclear power plant known as Fukushima Daiichi, knocking out electrical power and all the reactors' safety systems. Three reactor cores experienced meltdowns in the first three days, leading to an unimaginable nuclear disaster. The person the Tokyo Electric Power Company called for help was Dr. Chuck Casto. In Station Blackout, Chuck Casto, the foremost authority on responding to nuclear disasters, shares his first-hand account of how he led the collaborative team of Japanese and American experts that faced the challenges of Fukushima. A lifetime of working in the nuclear industry prepared him to manage an extreme crisis, lessons that apply to any crisis situation.

**Date** December 4, 2018

**Language** English

**Short Title** Station Blackout

**Library Catalog** Amazon

**Publisher** Radius Book Group  
**# of Pages** 254  
**Date Added** 1/21/2020, 2:21:48 PM  
**Modified** 5/13/2025, 4:57:26 PM

## Attachments

- Amazon.com Link
  - Amazon.com Link
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## Strange Glow: The Story of Radiation

**Item Type** Book  
**Author** Timothy J. Jorgensen  
**Abstract** The fascinating science and history of radiationMore than ever before, radiation is a part of our modern daily lives. We own radiation-emitting phones, regularly get diagnostic x-rays, such as mammograms, and submit to full-body security scans at airports. We worry and debate about the proliferation of nuclear weapons and the safety of nuclear power plants. But how much do we really know about radiation? And what are its actual dangers? An accessible blend of narrative history and science, Strange Glow describes mankind's extraordinary, thorny relationship with radiation, including the hard-won lessons of how radiation helps and harms our health. Timothy Jorgensen explores how our knowledge of and experiences with radiation in the last century can lead us to smarter personal decisions about radiation exposures today.Jorgensen introduces key figures in the story of radiation—from Wilhelm Roentgen, the discoverer of x-rays, and pioneering radioactivity researchers Marie and Pierre Curie, to Thomas Edison and the victims of the recent Fukushima Daiichi nuclear power plant accident. Tracing the most important events in the evolution of radiation, Jorgensen explains exactly what radiation is, how it produces certain health consequences, and how we can protect ourselves from harm. He also considers a range of practical scenarios such as the risks of radon in our basements, radiation levels in the fish we eat, questions about cell-phone use, and radiation's link to cancer. Jorgensen empowers us to make informed choices while offering a clearer understanding of broader societal issues.Investigating radiation's benefits and risks, Strange Glow takes a remarkable look at how, for better or worse, radiation has transformed our society.  
**Date** February 23, 2016  
**Language** English  
**Short Title** Strange Glow  
**Library Catalog** Amazon  
**Publisher** Princeton University Press  
**Edition** Reprint edition  
**# of Pages** 495  
**Date Added** 1/21/2020, 2:54:42 PM

**Modified** 1/21/2020, 2:54:42 PM

## Attachments

- Amazon.com Link
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## SuperFuel: Thorium, the Green Energy Source for the Future

**Item Type** Book

**Author** Richard Martin

**Abstract** A riveting look at how an alternative source of energy is revolutionising nuclear power, promising a safe and clean future for millions, and why thorium was sidelined at the height of the Cold War In this groundbreaking account of an energy revolution in the making, award-winning science writer Richard Martin introduces us to thorium, a radioactive element and alternative nuclear fuel that is far safer, cleaner, and more abundant than uranium. At the dawn of the Atomic Age, thorium and uranium seemed to be in close competition as the fuel of the future. Uranium, with its ability to undergo fission and produce explosive material for atomic weapons, won out over its more pacific sister element, relegating thorium to the dustbin of science. Now, as we grapple with the perils of nuclear energy and rogue atomic weapons, and mankind confronts the specter of global climate change, thorium is re-emerging as the overlooked energy source as a small group of activists and outsiders is working, with the help of Silicon Valley investors, to build a thorium-power industry. In the first book mainstream book to tackle these issues, Superfuel is a story of rediscovery of a long lost technology that has the power to transform the world's future, and the story of the pacifists, who were sidelined in favour of atomic weapon hawks, but who can wean us off our fossil-fuel addiction and avert the risk of nuclear meltdown for ever.

**Date** 2013

**Language** English

**Short Title** SuperFuel

**Library Catalog** Amazon

**Place** New York

**Publisher** St. Martin's Griffin

**ISBN** 978-1-37-27834-0

**# of Pages** 272

**Date Added** 1/19/2026, 3:39:16 PM

**Modified** 1/19/2026, 3:39:16 PM

## Attachments

- Amazon.com Link

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## Superheavy: making and breaking the periodic table

**Item Type** Book  
**Author** Kit Chapman  
**Date** 2019  
**Language** eng  
**Short Title** Superheavy  
**Library Catalog** K10plus ISBN  
**Place** London, England  
**Publisher** Zed Books  
**ISBN** 978-1-4729-5389-6 978-1-4729-7475-4  
**Series** Bloomsbury Sigma series  
**Series Number** Book forty-five  
**Edition** First edition  
**# of Pages** 1  
**DOI** 10.5040/9781472974754  
**Date Added** 1/20/2025, 9:46:20 AM  
**Modified** 1/20/2025, 9:46:20 AM

### Notes:

Children of the Atom. Modern alchemy ; The secret of Gilman Hall ; How to build a nuclear weapon ; Superman vs the FBI ; Universitium ofium Californium Berkelium ; The death of Jimmy Robinson ; Presidents and beetles -- Transfermium Wars. Novelievium ; From Russia with flerov ; The east and the west ; Xanthasia and the magic numbers ; Life at the edge of science ; The atoms that came in from the cold ; Changing the rules ; How to name your element -- The End of Chemistry. After the wall came down ; The Ninov fraud ; A new hope ; Beams of the rising sun ; The edge of the unknown ; Beyond superheavy

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Explores how scientists create superheavy elements, using giant machines to try to make single atoms of mysterious artefacts that have never existed on Earth. From the first elements past uranium and their role in the development of the atomic bomb to the latest discoveries stretching the chemical world, Superheavy reveals the hidden stories lurking at the edge of the periodic table "Creating an element is no easy feat. It's the equivalent of firing six trillion bullets a second at a needle in a haystack, hoping the bullet and needle somehow fuse together, then catching it in less than a thousandth of a second--after which it's gone forever. Welcome to the world of the superheavy elements: a realm where scientists use giant machines and spend years trying to make a single atom of mysterious artefacts that have never existed on Earth. From the first elements past uranium and their role in the atomic bomb to the latest discoveries stretching our chemical world, Superheavy will reveal the hidden stories lurking at the edges of the periodic table. Why did the US Air Force fly planes into mushroom clouds? Who won the transfermium wars? How did an earthquake help give Japan its first element? And what happened when Superman almost spilled nuclear secrets? In a globe-trotting adventure that stretches from the United States to Russia, Sweden to Australia, Superheavy is your guide to the amazing science filling in the missing pieces of the periodic table. By the end you'll not only marvel at how nuclear science has changed our lives--you'll wonder where it's going to take us in the future"--Dust jacket

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Series number from title page verso Periodic table of the elements on lining-papers Includes bibliographical references (pages [289]-294) and index

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## The Apocalypse Factory: Plutonium and the Making of the Atomic Age

**Item Type** Book

**Author** Steve Olson

**Abstract** 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 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.

**Date** 2020-07-28

**Language** English

**Short Title** The Apocalypse Factory

**Library Catalog** Amazon

**Publisher** W. W. Norton & Company

**Edition** Illustrated edition

**# of Pages** 345

**Date Added** 5/13/2025, 4:57:02 PM

**Modified** 5/13/2025, 4:57:02 PM

## Attachments

- Amazon.com Link
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## The Dark Horse: Nuclear Power and Climate Change

**Item Type** Book

**Author** Rauli Partanen

**Author** Janne M. Korhonen

**Author** Mark Lynas

**Abstract** Climate scientists consider climate change to be among top threats to humanity's future. If unchecked, runaway climate change can destroy not just many of our current ecosystems, but wreak havoc in human societies as well. To prevent the worst catastrophe, greenhouse gas emissions from our energy system needs to decline to zero rapidly. We need to replace fossil fuels, which represent roughly 85 % of our energy production, with low-carbon alternatives. To manage this in a low-risk and timely manner, all tools need to be utilized to their maximum potential, including nuclear energy. Nuclear is surrounded by colourful rhetoric, politics, fear and fearmongering, click-bait scandal-headlines and mental images of dangerous radiation and catastrophic accidents. But how much of this is warranted, and how much is based on beliefs, opinions and prejudices? How dangerous is ionizing radiation really? What happened in Chernobyl and Fukushima, and what are the best estimates on their effects on public health and the environment? And can we harness nuclear energy to play a major role in decarbonizing our energy systems rapidly and more affordably? This book takes a serious look how the climate change mitigation is progressing, what needs to be done, and how nuclear has helped in the past, and can help us in the future. Partanen is an award-winning science writer and analyst on climate, environment, energy and society. Korhonen did his PhD in the history of technology, has written about climate and

energy for years and is currently researching "Plan B", and emergency program for climate change mitigation. "Essential reading for all climate hawks, policymakers and environmentalists." - Kirsty Gogan, Founder, Energy for Humanity

**Date** 2020

**Language** English

**Short Title** The Dark Horse

**Library Catalog** Amazon

**Place** Place of publication not identified

**Publisher** Let's Think Again Media

**ISBN** 978-952-69474-1-9

**# of Pages** 298

**Date Added** 1/19/2026, 3:51:59 PM

**Modified** 1/19/2026, 3:51:59 PM

## Attachments

- Amazon.com Link
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## The Doomsday Machine: Confessions of a Nuclear War Planner

**Item Type** Book

**Author** Daniel Ellsberg

**Abstract** Shortlisted for the 2018 Andrew Carnegie Medal for Excellence in NonfictionFrom the legendary Pentagon Papers whistle-blower, an eyewitness exposé of America's Top Secret, seventy-year nuclear policy that continues to this day. Here, for the first time, former high-level defense analyst Daniel Ellsberg reveals his shocking firsthand account of America's nuclear program in the 1960s. From the remotest air bases in the Pacific Command, where he discovered that the authority to initiate use of nuclear weapons was widely delegated, to the secret plans for general nuclear war under Eisenhower, which, if executed, would cause the near-extinction of humanity, Ellsberg shows that the legacy of this most dangerous arms buildup in the history of civilization--and its proposed renewal under the Trump administration--threatens our very survival. No other insider with high-level access has written so candidly of the nuclear strategy of the late Eisenhower and early Kennedy years, and nothing has fundamentally changed since that era. Framed as a memoir--a chronicle of madness in which Ellsberg acknowledges participating--this gripping exposé reads like a thriller and offers feasible steps we can take to dismantle the existing "doomsday machine" and avoid nuclear catastrophe, returning Ellsberg to his role as whistle-blower. The Doomsday Machine is thus a real-life Dr. Strangelove story and an ultimately hopeful--and powerfully important--book about not just our country, but the future of the world.

**Date** 2018-12-04

**Language** English

**Short Title** The Doomsday Machine

**Library Catalog** Amazon

**Place** London Oxford New York New Delhi Sydney  
**Publisher** Bloomsbury Publishing  
**ISBN** 978-1-60819-673-9  
**Edition** Reprint edition  
**# of Pages** 432  
**Date Added** 5/13/2025, 4:54:23 PM  
**Modified** 5/13/2025, 4:54:23 PM

**Attachments**

- [Amazon.com Link](#)
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## The Doomsday Machine: The High Price of Nuclear Energy, the World's Most Dangerous Fuel

**Item Type** Book  
**Author** Martin Cohen  
**Contributor** Andrew McKillop  
**Date** 2012  
**Language** eng  
**Short Title** The Doomsday Machine  
**Library Catalog** K10plus ISBN  
**Place** New York  
**Publisher** St. Martin's Press  
**ISBN** 978-1-137-00034-7  
**Edition** 1st ed  
**# of Pages** 1  
**Date Added** 1/20/2025, 9:41:26 AM  
**Modified** 1/19/2026, 4:00:01 PM

**Notes:**

Description based on publisher supplied metadata and other sources

**Attachments**

- [Amazon.com Link](#)
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# The Girls of Atomic City: The Untold Story of the Women Who Helped Win World War II

**Item Type** Book

**Author** Denise Kiernan

**Abstract** Now a New York Times Bestseller! THE GIRLS OF ATOMIC CITY AT THE HEIGHT OF WORLD WAR II, Oak Ridge, Tennessee, was home to 75,000 residents, consuming more electricity than New York City. But to most of the world, the town did not exist. Thousands of civilians--many of them young women from small towns across the South--were recruited to this secret city, enticed by solid wages and the promise of war-ending work. Kept very much in the dark, few would ever guess the true nature of the tasks they performed each day in the hulking factories in the middle of the Appalachian Mountains. That is, until the end of the war--when Oak Ridge's secret was revealed. Drawing on the voices of the women who lived it--women who are now in their eighties and nineties--The Girls of Atomic City rescues a remarkable, forgotten chapter of American history from obscurity. Denise Kiernan captures the spirit of the times through these women: their pluck, their desire to contribute, and their enduring courage. Combining the grand-scale human drama of The Worst Hard Time with the intimate biography and often troubling science of The Immortal Life of Henrietta Lacks, The Girls of Atomic City is a lasting and important addition to our country's history. As heard on National Public Radio's Weekend Edition. One of Goodreads' Most Popular Books of March 2013. One of Amazon's Editors' Picks for Best Books of the Month (History). One of Amazon's Editors' Picks for Best Books of the Month (Nonfiction). One of Amazon's Big Spring Books (History)

**Date** March 5, 2013

**Language** English

**Short Title** The Girls of Atomic City

**Library Catalog** Amazon

**Place** New York, NY

**Publisher** Atria Books

**ISBN** 978-1-4516-1752-8

**Edition** Later prt. edition

**# of Pages** 400

**Date Added** 1/21/2020, 2:00:21 PM

**Modified** 1/21/2020, 2:00:21 PM

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# The Grid: The Fraying Wires Between Americans and Our Energy Future

**Item Type** Book

**Author** Gretchen Bakke

**Abstract** A revelatory look at our national power grid--how it developed, its current flaws, and how it must be completely reimagined for our fast-approaching energy future.America's electrical grid, an engineering triumph of the twentieth century, is turning out to be a poor fit for the present. It's not just that the grid has grown old and is now in dire need of basic repair. Today, as we invest great hope in new energy sources--solar, wind, and other alternatives--the grid is what stands most firmly in the way of a brighter energy future. If we hope to realize this future, we need to reimagine the grid according to twenty-first-century values. It's a project which forces visionaries to work with bureaucrats, legislators with storm-flattened communities, moneymen with hippies, and the left with the right. And though it might not yet be obvious, this revolution is already well under way. Cultural anthropologist Gretchen Bakke unveils the many facets of America's energy infrastructure, its most dynamic moments and its most stable ones, and its essential role in personal and national life. The grid, she argues, is an essentially American artifact, one which developed with us: a product of bold expansion, the occasional foolhardy vision, some genius technologies, and constant improvisation. Most of all, her focus is on how Americans are changing the grid right now, sometimes with gumption and big dreams and sometimes with legislation or the brandishing of guns.The Grid tells--entertainingly, perceptively--the story of what has been called "the largest machine in the world": its fascinating history, its problematic present, and its potential role in a brighter, cleaner future.

**Date** July 11, 2017

**Language** English

**Short Title** The Grid

**Library Catalog** Amazon

**Publisher** Bloomsbury USA

**ISBN** 978-1-63286-568-7

**Edition** Reprint edition

**# of Pages** 384

**Date Added** 1/21/2020, 4:55:42 PM

**Modified** 1/21/2020, 4:55:42 PM

## Attachments

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## The Making of the Atomic Bomb

**Item Type** Book

**Author** Richard Rhodes

**Abstract** 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' 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.

**Date** June 12, 2012

**Language** English

**Short Title** The Making of the Atomic Bomb

**Library Catalog** Amazon

**Place** New York

**Publisher** Simon & Schuster

**ISBN** 978-1-4516-7761-4

**Edition** Anv Rep edition

**# of Pages** 896

**Date Added** 6/26/2015, 8:44:59 PM

**Modified** 5/13/2025, 5:13:06 PM

## Attachments

- Amazon.com Link
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## The Radium Girls: The Dark Story of America's Shining Women

**Item Type** Book

**Author** Kate Moore

**Abstract** A New York Times, USA Today, and Wall Street Journal Bestseller!Emma Watson's Our Shared Shelf Bookclub Selection - May/June 2018 "the glowing ghosts of the radium girls haunt us still."—NPR Books The incredible true story of the women who fought America's Undark dangerThe Curies' newly discovered element of radium makes gleaming headlines across the nation as the fresh face of beauty, and wonder drug of the medical community. From body lotion to tonic water, the popular new element shines bright in the otherwise dark years of the First World War.Meanwhile, hundreds of girls toil amidst the glowing dust of the radium-dial factories. The

glittering chemical covers their bodies from head to toe; they light up the night like industrious fireflies. With such a coveted job, these "shining girls" are the luckiest alive — until they begin to fall mysteriously ill. But the factories that once offered golden opportunities are now ignoring all claims of the gruesome side effects, and the women's cries of corruption. And as the fatal poison of the radium takes hold, the brave shining girls find themselves embroiled in one of the biggest scandals of America's early 20th century, and in a groundbreaking battle for workers' rights that will echo for centuries to come. Written with a sparkling voice and breakneck pace, *The Radium Girls* fully illuminates the inspiring young women exposed to the "wonder" substance of radium, and their awe-inspiring strength in the face of almost impossible circumstances. Their courage and tenacity led to life-changing regulations, research into nuclear bombing, and ultimately saved hundreds of thousands of lives...

**Date** April 18, 2017

**Language** English

**Short Title** The Radium Girls

**Library Catalog** Amazon

**Publisher** Sourcebooks

**Edition** 1 edition

**# of Pages** 405

**Date Added** 1/21/2020, 2:00:14 PM

**Modified** 1/21/2020, 2:00:14 PM

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## The Road to Yucca Mountain: The Development of Radioactive Waste Policy in the United States

**Item Type** Book

**Author** J. Samuel Walker

**Abstract** In *The Road to Yucca Mountain*, J. Samuel Walker traces the U.S. government's tangled efforts to solve the technical and political problems associated with radioactive waste. From the Manhattan Project through the designation in 1987 of Yucca Mountain in Nevada as a high-level waste repository, Walker thoroughly investigates the approaches adopted by the U.S. Atomic Energy Commission (AEC). He explains the growing criticism of the AEC's waste programs, such as the AEC's embarrassing failure in its first serious effort to build a high-level waste repository in a Kansas salt mine. Clearly and accessibly, Walker explains the issues surrounding deep geological disposal and surface storage of high-level waste and spent reactor fuel. He analyzes the equally complex and divisive question of fuel "reprocessing." He weaves reliable research with fresh insights about nuclear science, geology, politics, and public administration, making this original and authoritative account an essential guide for understanding the continuing controversy over an illusive and emotional topic.

**Date** September 2, 2009  
**Language** English  
**Short Title** The Road to Yucca Mountain  
**Library Catalog** Amazon  
**Place** Berkeley  
**Publisher** University of California Press  
**ISBN** 978-0-520-26045-0  
**Edition** First edition  
**# of Pages** 240  
**Date Added** 1/21/2020, 2:04:57 PM  
**Modified** 1/21/2020, 2:04:57 PM

## Attachments

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## THORIUM: energy cheaper than coal

**Item Type** Book  
**Author** Robert Hargraves  
**Abstract** Thorium energy can help check CO<sub>2</sub> and global warming, cut deadly air pollution, provide inexhaustible energy, and increase human prosperity. Our world is beset by global warming, pollution, resource conflicts, and energy poverty. Millions die from coal plant emissions. We war over mideast oil. Food supplies from sea and land are threatened. Developing nations' growth exacerbates the crises. Few nations will adopt carbon taxes or energy policies against their economic self-interests to reduce global CO<sub>2</sub> emissions. Energy cheaper than coal will dissuade all nations from burning coal. Innovative thorium energy uses economic persuasion to end the pollution, to provide energy and prosperity to developing nations, and to create energy security for all people for all time. "This book presents a lucid explanation of the workings of thorium-based reactors. It is must reading for anyone interested in our energy future." Leon Cooper, Brown University physicist and 1972 Nobel laureate for superconductivity "As our energy future is essential I can strongly recommend the book for everybody interested in this most significant topic." George Olah, 1994 Nobel laureate for carbon chemistry  
**Date** 2012-07-25  
**Language** English  
**Short Title** THORIUM  
**Library Catalog** Amazon  
**Publisher** CreateSpace Independent Publishing Platform  
**ISBN** 978-1-4781-6129-5  
**# of Pages** 482  
**Date Added** 1/20/2025, 9:53:55 AM

**Modified** 1/20/2025, 9:53:55 AM

## Attachments

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# Uncertainty Underground: Yucca Mountain and the Nation's High-Level Nuclear Waste

**Item Type** Book

**Editor** Allison MacFarlane

**Editor** Rodney Ewing

**Abstract** Despite approval by Congress and the Bush administration and over seven billion dollars already spent, the Yucca Mountain, Nevada, site for disposal of highly radioactive spent nuclear fuel is not yet in operation. The reasons for the delay lie not only in citizen and activist opposition to the project but also in the numerous scientific and technical issues that remain unresolved. Although many scientists favor geologic disposal of high-level nuclear waste, there are substantial unknowns in projecting the performance of a site over the tens to hundreds of thousands of years that may be required by Environmental Protection Agency standards. Uncertainty Underground is the first effort to review the uncertainties in the analysis of the long-term performance of the proposed repository at Yucca Mountain. The book does not pass judgment on the suitability of the site but provides reliable science-based information to support open debate and inquiry into its safety. Experts from the geosciences, industry, and government review different aspects of the repository system, focusing on the uncertainties inherent in each. After an overview of the historical and regulatory context, the contributors investigate external factors (including climate change and volcanic activity) that could affect repository performance and then turn to topics concerning the repository itself. These include hydrologic issues, the geological conditions with which the nuclear waste in the repository would interact, and the predicted behavior of the different kinds of waste and waste package materials. Uncertainty Underground succeeds in making these important technical issues understandable to a wide audience, including policymakers and the general public.

**Date** April 21, 2006

**Language** English

**Short Title** Uncertainty Underground

**Library Catalog** Amazon

**Place** Cambridge, Mass

**Publisher** The MIT Press

**ISBN** 978-0-262-63332-1

**# of Pages** 456

**Date Added** 1/21/2020, 2:01:58 PM

**Modified** 1/21/2020, 2:01:58 PM

## Attachments

- Amazon.com Link
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## Uranium: War, Energy, and the Rock That Shaped the World

**Item Type** Book

**Author** Tom Zoellner

**Abstract** The fascinating story of the most powerful source of energy the earth can yieldUranium is a common element in the earth's crust and the only naturally occurring mineral with the power to end all life on the planet. After World War II, it reshaped the global order-whoever could master uranium could master the world. Marie Curie gave us hope that uranium would be a miracle panacea, but the Manhattan Project gave us reason to believe that civilization would end with apocalypse. Slave labor camps in Africa and Eastern Europe were built around mine shafts and America would knowingly send more than six hundred uranium miners to their graves in the name of national security. Fortunes have been made from this yellow dirt; massive energy grids have been run from it. Fear of it panicked the American people into supporting a questionable war with Iraq and its specter threatens to create another conflict in Iran. Now, some are hoping it can help avoid a global warming catastrophe. In Uranium, Tom Zoellner takes readers around the globe in this intriguing look at the mineral that can sustain life or destroy it.

**Date** February 7, 2009

**Language** English

**Short Title** Uranium

**Library Catalog** Amazon

**Publisher** Penguin Books

**# of Pages** 364

**Date Added** 1/21/2020, 2:55:15 PM

**Modified** 1/21/2020, 2:55:15 PM

## Attachments

- Amazon.com Link
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## Voices from Chernobyl

**Item Type** Book

**Author** Svetlana Alexievich

**Translator** Keith Gessen

**Abstract** Winner of the Nobel Prize in Literature and Winner of the National Book Critics Circle Award A journalist by trade, who now suffers from an immune deficiency developed while researching this book, presents personal accounts of what happened to the

people of Belarus after the nuclear reactor accident in 1986, and the fear, anger, and uncertainty that they still live with. The Nobel Prize in Literature 2015 was awarded to Svetlana Alexievich "for her polyphonic writings, a monument to suffering and courage in our time."

**Date** 2015-10-16

**Language** English

**Library Catalog** Amazon

**Publisher** Dalkey Archive Press

**# of Pages** 257

**Date Added** 5/13/2025, 5:06:21 PM

**Modified** 5/13/2025, 5:06:21 PM

## Attachments

- Amazon.com Link
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## Yellow Dirt: An American Story of a Poisoned Land and a People Betrayed

**Item Type** Book

**Author** Judy Pasternak

**Abstract** WINNER OF THE J. ANTHONY LUKAS WORK-IN-PROGRESS AWARD Atop a craggy mesa in the northern reaches of the Navajo reservation lies what was once a world-class uranium mine called Monument No. 2. Discovered in the 1940s—during the government's desperate press to build nuclear weapons—the mesa's tremendous lode would forever change the lives of the hundreds of Native Americans who labored there and of their families, including many who dwelled in the valley below for generations afterward. Yellow Dirt offers readers a window into a dark chapter of modern history that still reverberates today. From the 1940s into the early twenty-first century, the United States knowingly used and discarded an entire tribe for the sake of atomic bombs. Secretly, during the days of the Manhattan Project and then in a frenzy during the Cold War, the government bought up all the uranium that could be mined from the hundreds of rich deposits entombed under the sagebrush plains and sandstone cliffs. Despite warnings from physicians and scientists that long-term exposure could be harmful, even fatal, thousands of miners would work there unprotected. A second set of warnings emerged about the environmental impact. Yet even now, long after the uranium boom ended, and long after national security could be cited as a consideration, many residents are still surrounded by contaminated air, water, and soil. The radioactive "yellow dirt" has ended up in their drinking supplies, in their walls and floors, in their playgrounds, in their bread ovens, in their churches, and even in their garbage dumps. And they are still dying. Transporting readers into a little-known country-within-a-country, award-winning journalist Judy Pasternak gives rare voice to Navajo perceptions of the world, their own complicated involvement with uranium mining, and their political coming-of-age. Along the way, their fates intertwine with decisions made in Washington, D.C., in the Navajo capital of Window Rock, and in the Western border towns where swashbuckling mining men trained their sights on the

fortunes they could wrest from tribal land, successfully pressuring the government into letting them do it their way. Yellow Dirt powerfully chronicles both a scandal of neglect and the Navajos' long fight for justice. Few had heard of this shameful legacy until Pasternak revealed it in a prize-winning Los Angeles Times series that galvanized a powerful congressman and a famous prosecutor to press for redress and repair of the grievous damage. In this expanded account, she provides gripping new details, weaving the personal and the political into a tale of betrayal, of willful negligence, and, ultimately, of reckoning.

**Date** September 21, 2010

**Language** English

**Short Title** Yellow Dirt

**Library Catalog** Amazon

**Place** New York, NY

**Publisher** Free Press

**ISBN** 978-1-4165-9482-6

**Edition** First Edition edition

**# of Pages** 336

**Date Added** 1/21/2020, 2:20:19 PM

**Modified** 1/21/2020, 2:20:19 PM

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