

Atomic Awakening A New Look At The History And Future Of Nuclear Power

Atomic AccidentsSeeing the Light: The Case for Nuclear Power in the 21st CenturyWhat I Know For SureOil PoliticsMidnight in ChernobylWhy We Need Nuclear PowerSparkSuperFuelContesting The Future Of Nuclear Power: A Critical Global Assessment Of Atomic EnergyHiroshimaObsessedRadioactivityNuclear Power or a Promise LostThe Rise of Nuclear FearThe Atomic Weight of LoveThoriumPower to Save the WorldNuclear EnergyContesting the Future of Nuclear PowerThe Future of Nuclear PowerThe Seventh DecadeThe Rise of Nuclear FearNuclear 2.0Nuclear Energy in the 21st CenturyNuclear NewsHow to Drive a Nuclear ReactorAtomic Awakening: A New Look at the History and Future of Nuclear PowerU.S. HistoryEnvironment and SocietyNuclear EnergyAtomic AdventuresCommand and ControlYour Atomic SelfSuperFuelNuclear Reactor AnalysisThe Martian ChroniclesNuclear EnergyFive Past Midnight in BhopalPower TripHead First C#

Atomic Accidents

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"Persuasive and based on deep research. Atomic Awakening taught me a great deal."—Nature The 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.

Seeing the Light: The Case for Nuclear Power in the 21st Century

A global tour of energy--the builder of human civilization and also its greatest threat. Energy is humanity's single most important resource. In fact, as energy expert Michael E. Webber argues in Power

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Trip, the story of how societies rise can be told largely as the story of how they manage energy sources through time. In 2019, as we face down growing demand for and accumulating environmental impacts from energy, we are at a crossroads and the stakes are high. But history shows us that energy's great value is that it allows societies to reinvent themselves. Power Trip explores how energy has transformed societies of the past and offers wisdom for today's looming energy crisis. There is no magic bullet; energy advances always come with costs. Scientific innovation needs public support. Energy initiatives need to be tailored to individual societies. We must look for long-term solutions. Our current energy crisis is real, but it is solvable. We have the power.

What I Know For Sure

An investigation into the effects of exercise on the brain evaluates how aerobic exercise positively influences the progression of such conditions as Alzheimer's disease, ADD, and depression, in a report that shares theory-supporting case studies and the results of a progressive school fitness program. 30,000 first printing.

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Oil Politics

Classic textbook for an introductory course in nuclear reactor analysis that introduces the nuclear engineering student to the basic scientific principles of nuclear fission chain reactions and lays a foundation for the subsequent application of these principles to the nuclear design and analysis of reactor cores. This text introduces the student to the fundamental principles governing nuclear fission chain reactions in a manner that renders the transition to practical nuclear reactor design methods most natural. The authors stress throughout the very close interplay between the nuclear analysis of a reactor core and those nonnuclear aspects of core analysis, such as thermal-hydraulics or materials studies, which play a major role in determining a reactor design.

Midnight in Chernobyl

By making use of the latest in world energy statistics, author Mark Lynas shows that with wind and solar still at only about one percent of global primary energy, looking to renewable energy as a solution to deliver all the world's power is a dangerously delusional concept.

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Moreover, with no possibility reducing the world's energy usage—when the developing world is fast extricating itself from poverty and adding the equivalent of a new Brazil to the global electricity consumption each year—additional solutions are needed. This book then details how the antinuclear movement of the 1970s and 1980s succeeded only in making the world more dependent on fossil fuels. Instead of making the same mistake again, this book shows how all those who want to see a low-carbon future need to join forces by backing an ambitious proposal for a combined investment in wind, solar, and nuclear power.

Why We Need Nuclear Power

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

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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.

Spark

After a tsunami destroyed the cooling system at Japan's Fukushima Nuclear Power Plant, triggering a meltdown, protesters around the world challenged the use of nuclear power. Germany announced it would close its plants by 2022. Although the ills of fossil fuels are better understood than ever, the threat of climate change has never aroused the same visceral dread or swift action. Spencer Weart dissects this paradox, demonstrating that a powerful web of images surrounding nuclear energy holds us captive, allowing fear, rather than facts, to drive our thinking and public policy. Building on his classic, *Nuclear Fear*, Weart follows nuclear imagery from its origins in the symbolism of medieval alchemy to its appearance in film and fiction. Long before nuclear fission was discovered, fantasies of the destroyed planet, the transforming ray, and the white city of the future took root in the popular imagination. At the turn of the twentieth century when limited

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facts about radioactivity became known, they produced a blurred picture upon which scientists and the public projected their hopes and fears. These fears were magnified during the Cold War, when mushroom clouds no longer needed to be imagined; they appeared on the evening news. Weart examines nuclear anxiety in sources as diverse as Alain Resnais's film *Hiroshima Mon Amour*, Cormac McCarthy's novel *The Road*, and the television show *The Simpsons*. Recognizing how much we remain in thrall to these setpieces of the imagination, Weart hopes, will help us resist manipulation from both sides of the nuclear debate.

SuperFuel

Discusses the future of nuclear reactors particularly whether smaller inexpensive reactors will become more prevalent or if reactors will become part of an alternative fuel economy.

Contesting The Future Of Nuclear Power: A Critical Global Assessment Of Atomic Energy

In her sweeping debut novel, Elizabeth J. Church takes us from the World War II years in Chicago to the vast sun-parched canyons of New

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Mexico in the 1970s as we follow the journey of a driven, spirited young woman, Meridian Wallace, whose scientific ambitions are subverted by the expectations of her era. In 1941, at seventeen years old, Meridian begins her ornithology studies at the University of Chicago. She is soon drawn to Alden Whetstone, a brilliant, complicated physics professor who opens her eyes to the fundamentals and poetry of his field, the beauty of motion, space and time, the delicate balance of force and energy that allows a bird to fly. Entranced and in love, Meridian defers her own career path and follows Alden west to Los Alamos, where he is engaged in a secret government project (later known to be the atomic bomb). In married life, though, she feels lost and left behind. She channels her academic ambitions into studying a particular family of crows, whose free life and companionship are the very things that seem beyond her reach. There in her canyons, years later at the dawn of the 1970s, with counterculture youth filling the streets and protests against the war rupturing college campuses across the country, Meridian meets Clay, a young geologist and veteran of the Vietnam War, and together they seek ways to mend what the world has broken. Exquisitely capturing the claustrophobic eras of 1940s and 1950s America, *The Atomic Weight of Love* also examines the changing roles of women during the decades that followed. And in *Meridian Wallace* we find an unforgettable heroine

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whose metamorphosis shows how the women's movement opened up the world for a whole generation.

Hiroshima

A brave teen recounts her debilitating struggle with obsessive-compulsive disorder—and brings readers through every painful step as she finds her way to the other side—in this powerful and inspiring memoir. Until sophomore year of high school, fifteen-year-old Allison Britz lived a comfortable life in an idyllic town. She was a dedicated student with tons of extracurricular activities, friends, and loving parents at home. But after awakening from a vivid nightmare in which she was diagnosed with brain cancer, she was convinced the dream had been a warning. Allison believed that she must do something to stop the cancer in her dream from becoming a reality. It started with avoiding sidewalk cracks and quickly grew to counting steps as loudly as possible. Over the following weeks, her brain listed more dangers and fixes. She had to avoid hair dryers, calculators, cell phones, computers, anything green, bananas, oatmeal, and most of her own clothing. Unable to act “normal,” the once-popular Allison became an outcast. Her parents questioned her behavior, leading to explosive fights. When notebook paper, pencils, and most schoolbooks were

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declared dangerous to her health, her GPA imploded, along with her plans for the future. Finally, she allowed herself to ask for help and was diagnosed with obsessive-compulsive disorder. This brave memoir tracks Allison's descent and ultimately hopeful climb out of the depths.

Obsessed

A New York Times Best Book of the Year A Time Best Book of the Year A Kirkus Reviews Best Nonfiction Book of the Year 2020 Andrew Carnegie Medals for Excellence Winner From journalist Adam Higginbotham, the New York Times bestselling "account that reads almost like the script for a movie" (The Wall Street Journal)—a powerful investigation into Chernobyl and how propaganda, secrecy, and myth have obscured the true story of one of the history's worst nuclear disasters. Early in the morning of April 26, 1986, Reactor Number Four of the Chernobyl Atomic Energy Station exploded, triggering one of the twentieth century's greatest disasters. 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

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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 brings the disaster to life through the eyes of the men and women who witnessed it firsthand. The result is a “riveting, deeply reported reconstruction” (Los Angeles Times) and a definitive account of an event that changed history: a story that is more complex, more human, and more terrifying than the Soviet myth. “The most complete and compelling history yet” (The Christian Science Monitor), Higginbotham’s “superb, enthralling, and necessarily terrifyingextraordinary” (The New York Times) book is an indelible portrait of 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.

Radioactivity

It was December 3, 1984. In the ancient city of Bhopal, a cloud of toxic gas escaped from an American pesticide plant, killing and injuring thousands of people. When the noxious clouds cleared, the

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worst industrial disaster in history had taken place. Now, Dominique Lapierre brings the hundreds of characters, conflicts, and adventures together in an unforgettable tale of love and hope. Readers will meet the poetry-loving factory worker who unleashes the apocalypse, the young Indian bride who was to be married that terrible night, and the doctors who died that night saving others. It is a gripping, fascinating account that is already mesmerizing readers around the world.

Nuclear Power or a Promise Lost

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!

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The Rise of Nuclear Fear

The latest investigation from acclaimed nuclear engineer and author James Mahaffey unearths forgotten nuclear endeavors throughout history that were sometimes hair-brained, often risky, and always fascinating.

The Atomic Weight of Love

Beginning with an obscure discovery in 1896, radioactivity led researchers on a quest for understanding that ultimately confronted the intersection of knowledge and mystery. This book tells the story of a new science that profoundly changed physics and chemistry, as well as areas such as medicine, geology, meteorology, archaeology, industry, politics, and popular culture.

Thorium

Published by OpenStax College, U.S. History covers the breadth of the chronological history of the United States and also provides the necessary depth to ensure the course is manageable for instructors and students alike. U.S. History is designed to meet the scope and

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sequence requirements of most courses. The authors introduce key forces and major developments that together form the American experience, with particular attention paid to considering issues of race, class and gender. The text provides a balanced approach to U.S. history, considering the people, events and ideas that have shaped the United States from both the top down (politics, economics, diplomacy) and bottom up (eyewitness accounts, lived experience).

Power to Save the World

Paleo workouts that are heavy on results--and low on equipment investment Paleo Workouts For Dummies offers a program of back-to-the-Stone-Age exercises with specially designed workouts that burn fat, fight disease, and increase energy. The paleo workouts found in this step-by-step guide, promote sound activities with a strong emphasis on practicing and mastering fundamental/primitive human movements such as squats, hinges, pushes/pulls, sprints, crawls, and more. Paleo Workouts For Dummies caters to the anti-gym crowd who want a convenient program that can be used anywhere, anytime. In addition, vital details on healthy Paleolithic foods that maximize energy levels for the intense workout routines are covered. Companion workout videos can be accessed, for free, at Dummies.com The video content aids you

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in mastering paleo moves and techniques covered in the book Offers a complete cardiovascular and strength workout By focusing on the primal movements that humans evolved to perform, Paleo Workouts For Dummies is for anyone following a paleo diet routine as well as those curious about how to maximize their paleo workouts.

Nuclear Energy

A guide to C# 3.0 and Visual Studio 2008 covers such topics as objects, data types and references, encapsulation, interfaces, exception handling, and LINQ.

Contesting the Future of Nuclear Power

After a tsunami destroyed the cooling system at Japan's Fukushima Nuclear Power Plant, triggering a meltdown, protesters around the world challenged the use of nuclear power. Germany announced it would close its plants by 2022. Although the ills of fossil fuels are better understood than ever, the threat of climate change has never aroused the same visceral dread or swift action. Spencer Weart dissects this paradox, demonstrating that a powerful web of images surrounding

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nuclear energy holds us captive, allowing fear, rather than facts, to drive our thinking and public policy. Building on his classic, *Nuclear Fear*, Weart follows nuclear imagery from its origins in the symbolism of medieval alchemy to its appearance in film and fiction. Long before nuclear fission was discovered, fantasies of the destroyed planet, the transforming ray, and the white city of the future took root in the popular imagination. At the turn of the twentieth century when limited facts about radioactivity became known, they produced a blurred picture upon which scientists and the public projected their hopes and fears. These fears were magnified during the Cold War, when mushroom clouds no longer needed to be imagined; they appeared on the evening news. Weart examines nuclear anxiety in sources as diverse as Alain Resnais's film *Hiroshima Mon Amour*, Cormac McCarthy's novel *The Road*, and the television show *The Simpsons*. Recognizing how much we remain in thrall to these setpieces of the imagination, Weart hopes, will help us resist manipulation from both sides of the nuclear debate.

The Future of Nuclear Power

This book captures the status of current electrical energy markets including the principal forces affecting decisions on selecting an energy source. It represents a seminal work that lays out the

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electrical energy decision tree for selecting an energy source in a world that is on the verge of catastrophic global warming because of the choices that have been made in the name of cheap energy. The impetus for this book includes the dire need to mitigate continued anthropogenic causes of global warming by turning to carbon free energy sources. Nuclear energy represents such a carbon-free energy source and could be a partial solution to the existential threat facing future society---the threat of a warming planet and its consequential, catastrophic effects on future generations. The world is at a crossroads in human interaction with their environment. The effects of radiation and the relationship of nuclear power to nuclear weapons are both discussed in an understandable and compelling manner. Nuclear energy is contrasted with other energy sources including fossil fuels and renewable energy sources regarding the risks and benefits imposed by each. Important personalities and world events that shaped nuclear power's development are recounted. The historical origins of nuclear power are outlined and the continued impetus to include nuclear power as part of the electric grid energy mix is assessed exposing the obstacles and road blocks to the continued use of nuclear power. Specific attention is paid to revealing the causes and lessons learned from the three severe accidents in commercial nuclear plants: TMI-2, Chernobyl, and Fukushima. An extensive

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discussion of nuclear waste disposal is provided as part of the decision tree for energy selection. The context for the future of nuclear power as a viable energy source is illuminated by the current battle between economic growth and the harm created by burning fossil fuels. The status of the world's climate and projections for the disruptive effects of global warming on future populations, migration, economics, and world strife are debated against the backdrop of an increasing world population and the drive by developing nations to achieve economic parity with the industrialized nations. Within the context of increased world strife, the quest by nations to obtain nuclear weapons is also discussed. The steps taken by the world to limit nuclear weapons proliferation are examined with emphasis on potential links between nuclear power generation and access to nuclear weapons. The final chapter discusses the moral responsibility of current generations with respect to future generations, specifically, the applicability of "intergenerational equity" in political and social decision-making regarding the actions that add to global warming and those risk averse actions that can be taken to minimize global warming.

The Seventh Decade

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This expanded, revised, and updated fourth edition of Nuclear Energy maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields.

The Rise of Nuclear Fear

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Discusses how the Bush Administration's policy of the preemptive use of force has changed the nuclear policies of other countries and increased the risk that leaders of unstable countries or terrorists could obtain nuclear weapons and pose a threat to the world.

Nuclear 2.0

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

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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.

Nuclear Energy in the 21st Century

Presents a minute-by-minute account of an H-bomb accident that nearly caused a nuclear disaster, examining other near misses and America's growing susceptibility to a catastrophic event.

Nuclear News

Substantially updated for the second edition, this engaging and innovative introduction to the environment and society uses key theoretical approaches to explore familiar objects. Features substantial revisions and updates for the second edition, including new chapters on E waste, mosquitoes and uranium, improved maps and

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graphics, new exercises, shorter theory chapters, and refocused sections on environmental solutions Discusses topics such as population and scarcity, commodities, environmental ethics, risks and hazards, and political economy and applies them to objects like bottled water, tuna, and trees Accessible for students, and accompanied by in-book and online resources including exercises and boxed discussions, an online test bank, notes, suggested reading, and website links for enhanced understanding Offers additional online support for instructors, including suggested teaching models, PowerPoint slides for each chapter with full-color graphics, and supplementary images and teaching material

How to Drive a Nuclear Reactor

Hiroshima is the story of six people--a clerk, a widowed seamstress, a physician, a Methodist minister, a young surgeon, and a German Catholic priest--who lived through the greatest single manmade disaster in history. In vivid and indelible prose, Pulitzer Prize-winner John Hersey traces the stories of these half-dozen individuals from 8:15 a.m. on August 6, 1945, when Hiroshima was destroyed by the first atomic bomb ever dropped on a city, through the hours and days that followed. Almost four decades after the original publication of

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this celebrated book, Hersey went back to Hiroshima in search of the people whose stories he had told, and his account of what he discovered is now the eloquent and moving final chapter of Hiroshima.

Atomic Awakening: A New Look at the History and Future of Nuclear Power

What do atoms have to do with your life? In *Your Atomic Self*, scientist Curt Stager reveals how they connect you to some of the most amazing things in the universe. You will follow your oxygen atoms through fire and water and from forests to your fingernails. Hydrogen atoms will wriggle into your hair and betray where you live and what you have been drinking. The carbon in your breath will become tree trunks, and the sodium in your tears will link you to long-dead oceans. The nitrogen in your muscles will help to turn the sky blue, the phosphorus in your bones will help to turn the coastal waters of North Carolina green, the calcium in your teeth will crush your food between atoms that were mined by mushrooms, and the iron in your blood will kill microbes as it once killed a star. You will also discover that much of what death must inevitably do to your body is already happening among many of your atoms at this very moment and that,

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nonetheless, you and everyone else you know will always exist somewhere in the fabric of the universe. You are not only made of atoms; you are atoms, and this book, in essence, is an atomic field guide to yourself.

U.S. History

Originally perceived as a cheap and plentiful source of power, the commercial use of nuclear energy has been controversial for decades. Worries about the dangers that nuclear plants and their radioactive waste posed to nearby communities grew over time, and plant construction in the United States virtually died after the early 1980s. The 1986 disaster at Chernobyl only reinforced nuclear power's negative image. Yet in the decade prior to the Japanese nuclear crisis of 2011, sentiment about nuclear power underwent a marked change. The alarming acceleration of global warming due to the burning of fossil fuels and concern about dependence on foreign fuel has led policymakers, climate scientists, and energy experts to look once again at nuclear power as a source of energy. In this accessible overview, Charles D. Ferguson provides an authoritative account of the key facts about nuclear energy. What is the origin of nuclear energy? What countries use commercial nuclear power, and how much electricity

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do they obtain from it? How can future nuclear power plants be made safer? What can countries do to protect their nuclear facilities from military attacks? How hazardous is radioactive waste? Is nuclear energy a renewable energy source? Featuring a discussion of the recent nuclear crisis in Japan and its ramifications, Ferguson addresses these questions and more in *Nuclear Energy: What Everyone Needs to Know®*, a book that is essential for anyone looking to learn more about this important issue. *What Everyone Needs to Know®* is a registered trademark of Oxford University Press.

Environment and Society

"Makes a case for nuclear energy as a clean-energy solution."--

Nuclear Energy

Nuclear power is not an option for the future but an absolute necessity. Global threats of climate change and lethal air pollution, killing millions each year, make it clear that nuclear and renewable energy must work together, as non-carbon sources of energy. Fortunately, a new era of growth in this energy source is underway in

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developing nations, though not yet in the West. Seeing the Light is the first book to clarify these realities and discuss their implications for coming decades. Readers will learn how, why, and where the new nuclear era is happening, what new technologies are involved, and what this means for preventing the proliferation of weapons. This book is the best work available for becoming fully informed about this key subject, for students, the general public, and anyone interested in the future of energy production, and, thus, the future of humanity on planet Earth.

Atomic Adventures

Thorium energy can help check CO2 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 CO2 emissions. Energy cheaper than coal will dissuade all nations from burning coal. Innovative thorium energy uses economic persuasion to end the pollution, to

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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

Command and Control

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.

Your Atomic Self

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As a creative force, student of the human heart and soul, and champion of living the life you want, Oprah Winfrey stands alone. Over the years, she has made history with a legendary talk show – the highest-rated program of its kind, launched her own television network, become the nation's only African-American billionaire, and been awarded both an honorary degree by Harvard University and the Presidential Medal of Freedom. From all her experiences, she has gleaned life lessons—which, for fourteen years, she's shared in O, The Oprah Magazine's widely popular "What I Know For Sure" column, a monthly source of inspiration and revelation. Now, for the first time, these thoughtful gems have been revised, updated, and collected in What I Know For Sure, a beautiful cloth bound book with a ribbon marker, packed with insight and revelation from Oprah Winfrey. Organized by theme—joy, resilience, connection, gratitude, possibility, awe, clarity, and power—these essays offer a rare, powerful and intimate glimpse into the heart and mind of one of the world's most extraordinary women—while providing readers a guide to becoming their best selves. Candid, moving, exhilarating, uplifting, and frequently humorous, the words Oprah shares in What I Know For Sure shimmer with the sort of truth that readers will turn to again and again.

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The tranquility of Mars is disrupted by humans who want to conquer space, colonize the planet, and escape a doomed Earth.

Nuclear Reactor Analysis

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

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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.

The Martian Chronicles

Nuclear Energy

"The first edition under this title was published by Elsevier and the World Nuclear University in 2006. The second edition was published by the World Nuclear University in 2012, reprinted 2011. Seven previous editions were published as Nuclear Electricity(1978-2003)"--T.p. verso.

Five Past Midnight in Bhopal

Surveys the tumultuous history of the international petroleum industry, from its extraordinary growth between 1950 and 1979,

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presided over by the seven major oil companies, to the price revolution of the 1970s and 1980s, to the re-emergence of Russia as an important but uncertain supplier. Parra charts the changing power dynamics amongst the major oil suppliers and examines their relationships with the major oil importing countries, and how these concerns have impacted on foreign policy.--From publisher's description.

Power Trip

This book provides a concise but rigorous appraisal about the future of nuclear power and the presumed nuclear renaissance. It does so by assessing the technical, economic, environmental, political, and social risks related to all aspects of the nuclear fuel cycle, from uranium mills and mines to nuclear reactors and spent fuel storage facilities. In each case, the book argues that the costs of nuclear power significantly outweigh its benefits. It concludes by calling for investments in renewable energy and energy efficiency as a better path towards an affordable, secure, and socially acceptable future. The prospect of a global nuclear renaissance could change the way that energy is produced and used the world over. Sovacool takes a hard look at who would benefit – mostly energy companies and manufacturers – and

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who would suffer – mostly taxpayers, those living near nuclear facilities, and electricity customers. This book is a must-read for anyone even remotely concerned about a sustainable energy future, and also for those with a specific interest in modern nuclear power plants.

Head First C#

This second edition represents an extensive revision of the first edition, – though the motivation for the book and the intended audiences, as described in the previous preface, remain the same. The overall length has been increased substantially, with revised or expanded discussions of a number of topics, – cluding Yucca Mountain repository plans, new reactor designs, health effects of radiation, costs of electricity, and dangers from terrorism and weapons proliferation. The overall status of nuclear power has changed rather little over the past eight years. Nuclear reactor construction remains at a very low ebb in much of the world, with the exception of Asia, while nuclear power's share of the electricity supply continues to be about 75% in France and 20% in the United States. However, there are signs of a heightened interest in considering possible nuclear growth. In the late 1990s, the U. S. Department of Energy

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began new programs to stimulate research and planning for future reactors, and many candidate designs are now contending—at least on paper—to be the next generation leaders. Outside the United States, the commercial development of the Pebble Bed Modular Reactor is being pursued in South Africa, a French-German consortium has won an order from Finland for the long-planned EPR (European Pressurized Water Reactor), and new reactors have been built or planned in Asia. In an unanticipated positive development for nuclear energy, the capacity factor of U. S. reactors has increased dramatically in recent years, and most operating reactors now appear headed for 20-year license renewals.

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