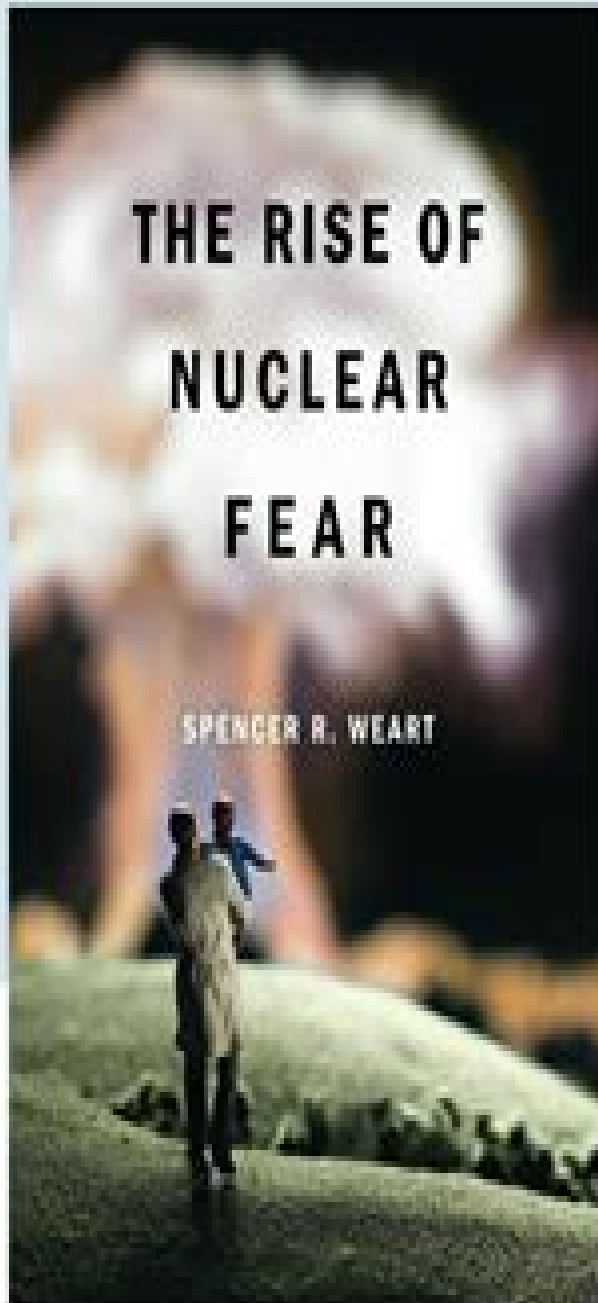


# THE RISE OF NUCLEAR FEAR

SPENCER R. WEART



thuprai

# Nuclear Fear A History Of Images

**Patrick Major, Rana Mitter**



## **Nuclear Fear A History Of Images:**

**Nuclear Fear** Spencer R. WEART, 1988 Our thinking is inhabited by images images of sometimes curious and overwhelming power The mushroom cloud weird rays that can transform the flesh the twilight world following a nuclear war the white city of the future the brilliant but mad scientist who plots to destroy the world all these images and more relate to nuclear energy but that is not their only common bond Decades before the first atom bomb exploded a web of symbols with surprising linkages was fully formed in the public mind The strange kinship of these symbols can be traced back not only to medieval symbolism but still deeper into experiences common to all of us This is a disturbing book it shows that much of what we believe about nuclear energy is not based on facts but on a complex tangle of imagery suffused with emotions and rooted in the distant past Nuclear Fear is the first work to explore all the symbolism attached to nuclear bombs and to civilian nuclear energy as well employing the powerful tools of history as well as findings from psychology sociology and even anthropology The story runs from the turn of the century to the present day following the scientists and journalists the filmmakers and novelists the officials and politicians of many nations who shaped the way people think about nuclear devices The author a historian who also holds a Ph D in physics has been able to separate genuine scientific knowledge about nuclear energy and radiation from the luxuriant mythology that obscures them In revealing the history of nuclear imagery Weart conveys the hopeful message that once we understand how this imagery has secretly influenced history and our own thinking we can move on to a clearer view of the choices that confront our civilization Table of Contents Preface Part One Years of Fantasy 1902 1938 1 Radioactive Hopes White Cities of the Future Missionaries for Science The Meaning of Transmutation 2 Radioactive Fears Scientific Doomsdays The Dangerous Scientist Scientists and Weapons Debating the Scientist's Role 3 Radium Elixir or Poison The Elixir of Life Rays of Life Death Rays Radium as Medicine and Poison 4 The Secret the Master and the Monster Smashing Atoms The Fearful Master Monsters and Victims Real Scientists The Situation before Fission Part Two Confronting Reality 1939 1952 5 Where Earth and Heaven Meet Imaginary Bomb Reactors Real Reactors and Safety Questions Planned Massacres The Second Coming 6 The News from Hiroshima Clich Experts Hiroshima Itself Security through Control by Scientists Security through Control over Scientists 7 National Defenses Civil Defenses Bombs as a Psychological Weapon The Airmen Part Three New Hopes and Horrors 1953 1963 8 Atoms for Peace A Positive Alternative Atomic Propaganda Abroad Atomic Propaganda at Home 9 Good and Bad Atoms Magical Atoms Real Reactors The Core of Mistrust Tainted Authorities 10 The New Blasphemy Bombs as a Violation of Nature Radioactive Monsters Blaming Authorities 11 Death Dust Crusaders against Contamination A Few Facts Clean or Filthy Bombs 12 The Imagination of Survival Visions of the End Survivors as Savages The Victory of the Victim The Great Thermonuclear Strategy Debate The World as Hiroshima 13 The Politics of Survival The Movement Attacking the Warriors Running for Shelter Cuban Catharsis Reasons for Silence Part Four Suspect Technology 1956 1986 14 Fail Safe Unwanted Explosions Bombs Unwanted

Explosions Reactors Advertising the Maximum Accident 15 Reactor Poisons and Promises Pollution from Reactors The Public Loses Interest The Nuplex versus the China Syndrome 16 The Debate Explodes The Fight against Antimissiles Sounding the Radiation Alarm Reactors A Surrogate for Bombs Environmentalists Step In 17 Energy Choices Alternative Energy Sources Real Reactor Risks It s Political The Reactor Wars 18 Civilization or Liberation The Logic of Authority and Its Enemies Nature versus Culture Modes of Expression The Public s Image of Nuclear Power 19 The War Fear Revival An Unfinished Chapter Part Five The Search for Renewal 20 The Modern Arcanum Despair and Denial Help from Heaven Objects in the Skies Mushroom and Mandala 21 Artistic Transmutations The Interior Holocaust Rebirth from Despair Toward the Four Gated City Conclusion A Personal Note Sources and Methodology Notes Index Reviews of this book Nuclear Fear is a rich layered journey back through our atomic history to the primal memories of monstrous mutants and mad scientists It is a deeply serious book but written in an accessible style that reveals the culture in which this fear emerges only to be suppressed and emerge again Ellen Goodman Boston Globe Reviews of this book A historical portrait of the quintessential modern nightmare Weart shows in meticulous and fascinating detail how the ancient images of alchemy fire sexuality Armageddon gold eternity and all the rest immediately clustered around the new science of atomic physics There is no question that the image of nuclear power reflects a complex and deeply disturbing portrait of what it means to be human Stephan Salisbury Philadelphia Inquirer Reviews of this book A detailed probing study of American hopes dreams and insecurities in the twentieth century Weart has a poet s acumen for sensing human feelings Nuclear Fear remains captivating as history and original as an anthropological study of how nuclear power like alchemy in medieval times offers a convenient symbol for deeply rooted human feelings Los Angeles Times Reviews of this book Weart s tale boldly sweeps from the futuristic White City of the 1893 Chicago World s Fair and the discovery of radioactivity in 1896 through Hiroshima and Star Wars An admirable call for synthesis of art and science in a true transmutation that takes us beyond nuclear fear H Bruce Franklin Science *The Rise of Nuclear Fear* Spencer R. Weart, 2012-04-02 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 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

*National Imaginaries, American Identities* Larry J. Reynolds, Gordon Hutner, 2021-03-09 From the American Revolution to the present the United States has enjoyed a rich and persuasive visual culture These images have constructed sustained and disseminated social values and identities but this unwieldy sometimes untidy form of cultural expression has received less systematic attention than other modes of depicting American life Recently scholars in the humanities have developed a new critical approach to reading images and the cultural work they perform This practice American cultural iconography is generating sophisticated analyses of how images organize our public life The contributions to this volume exhibit the extraordinary scope and interpretive power of this interdisciplinary study while illuminating the dark corners of the nation's psyche Drawing on such varied texts and visual media as daguerreotypes political cartoons tourist posters and religious artifacts these essays explore how pictures and words combine to teach us who we are and who we are not They examine mimesis in elegant portraits of black Freemasons industrial age representations of national parks and postwar photographs of atomic destruction They consider how visual culture has described and disclosed the politics of racialized sexuality whether subconsciously affirming it in the shadows of film noir or deliberately contesting it through the interethnic incest of John Sayles's *Lone Star* Students of literature film and history will find that these essays extend the frontier of American studies The contributors are Maurice Wallace Dennis Berthold Alan Trachtenberg Shirley Samuels Jenny Franchot Cecelia Tichi Eric Lott Bryan C Taylor and Jos E Lim n

**Atomic Narratives and American Youth** Michael Scheibach, 2015-09-17 Following the atomic bombings of Hiroshima and Nagasaki numerous atomic narratives books newspapers magazines textbooks movies and television programs addressed the implications of the bomb Post World War II youth encountered atomic narratives in their daily lives at school at home and in their communities and were profoundly affected by what they read and saw This multidisciplinary study examines the exposure of American youth to atomic narratives during the ten years following World War II In addition it examines the broader social narrative of the atom which included educational social cultural and political activities that surrounded and involved American youth The activities ranged from school and community programs to movies and television shows to government sponsored traveling exhibits on atomic energy The book also presents numerous examples of writings by postwar adolescents who clearly expressed their conflicted feelings about growing up in such a tumultuous time and shows how many of the issues commonly associated with the sixties generation such as peace fellowship free expression and environmental concern can be traced to this earlier generation

**The Atomic West** Bruce W. Hevly, John M. Findlay, 2011-12-01 The Manhattan Project the World War II race to produce an atomic bomb transformed the entire country in myriad ways but it did not affect each region

equally Acting on an enduring perception of the American West as an empty place the U S government located a disproportionate number of nuclear facilities particularly the ones most likely to spread pollution in western states The Manhattan Project manufactured plutonium at Hanford Washington designed and assembled bombs at Los Alamos New Mexico and detonated the world s first atomic bomb at Alamogordo New Mexico on June 16 1945 In the years that followed the war the U S Atomic Energy Commission selected additional western sites for its work Many westerners initially welcomed the atom Like federal officials they too regarded their region as empty or underdeveloped Facilities to make test and base atomic weapons sites to store nuclear waste and even nuclear power plants were regarded as assets By the 1960s and 1970s however regional attitudes began to change At a variety of locales ranging from Eskimo Alaska to Mormon Utah westerners devoted themselves to resisting the atom and its effects on their environments and communities Just as the atomic age had dawned in the American West so its artificial sun began to set there The Atomic West brings together contributions from several disciplines to explore the impact on the West of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s An impressive example of the benefits of interdisciplinary studies on complex topics The Atomic West advances our understanding of both regional history and the history of science and does so with human communities as a significant focal point The book will be of special interest to students and experts on the American West environmental history and the history of science and technology

**Across the Blocs** Patrick Major, Rana Mitter, 2004-08-02 This book asks the reader to reassess the Cold War not just as superpower conflict and high diplomacy but as social and cultural history It makes cross cultural comparisons of the socio cultural aspects of the Cold War across the East West block divide dealing with issues including broadcasting public opinion and the production and consumption of popular culture *Rethinking Global Security* Andrew Martin, Patrice Petro, 2006 In *Rethinking Global Security* Andrew Martin and Patrice Petro bring together ten path breaking essays that explore the ways that our notions of fear insecurity and danger are fostered by intermediary sources such as television radio film satellite imaging and the Internet The contributors who represent a wide variety of disciplines including communications art history media studies women s studies and literature show how both fictional and fact based threats to global security have helped to create and sustain a culture that is deeply distrustful of images stories reports and policy decisions Topics range from the Patriot Act to the censorship of media personalities such as Howard Stern to the role that Buffy the Vampire Slayer and other television programming play as an interpretative frame for current events **Political Realism in Apocalyptic Times** Alison McQueen, 2017-12-28 From climate change to nuclear war to the rise of demagogic populists our world is shaped by doomsday expectations In this path breaking book Alison McQueen shows why three of history s greatest political realists feared apocalyptic politics Niccol Machiavelli in the midst of Italy s vicious power struggles Thomas Hobbes during England s bloody civil war and Hans Morgenthau at the dawn of the thermonuclear age all saw the temptation to prophesy the end of

days Each engaged in subtle and surprising strategies to oppose apocalypticism from using its own rhetoric to neutralize its worst effects to insisting on a clear eyed tragic acceptance of the human condition Scholarly yet accessible this book is at once an ambitious contribution to the history of political thought and a work that speaks to our times **Atomic Bomb**

**Cinema** Jerome F. Shapiro, 2013-05-13 Unfathomably merciless and powerful the atomic bomb has left its indelible mark on film In Atomic Bomb Cinema Jerome F Shapiro unearths the unspoken legacy of the bombing of Nagasaki and Hiroshima and its complex aftermath in American and Japanese cinema According to Shapiro a Bomb film is never simply an exercise in ideology or paranoia He examines hundreds of films like Godzilla Dr Strangelove and The Terminator as a body of work held together by ancient narrative and symbolic traditions that extol survival under devastating conditions Drawing extensively on both English language and Japanese language sources Shapiro argues that such films not only grapple with our nuclear anxieties but also offer signs of hope that humanity is capable of repairing a damaged and divided world [www atomicbombcinema com](http://www.atomicbombcinema.com)

**The Atomic Bomb in Japanese Cinema** Matthew Edwards, 2018-07-24 Seventy years after the nuclear attacks on Hiroshima and Nagasaki Japan is still dealing with the effects of the bombings on the national psyche From the Occupation Period to the present Japanese cinema had offered a means of coming to terms with one of the most controversial events of the 20th century From the monster movies Gojira 1954 and Mothra 1961 to experimental works like Go Shibata s NN 891102 1999 atomic bomb imagery features in all genres of Japanese film This collection of new essays explores the cultural aftermath of the bombings and its expression in Japanese cinema The contributors take on a number of complex issues including the suffering of the survivors hibakusha the fear of future holocausts and the danger of nuclear warfare Exclusive interviews with Go Shibata and critically acclaimed directors Roger Spottiswoode Hiroshima and Steven Okazaki White Light Black Rain are included [Destruction Rites](#) Mona Hadler, 2017-01-30 In the early sixties crowds

gathered to watch rites of destruction from the demolition derby where makeshift cars crashed into each other for sport to concerts where musicians destroyed their instruments to performances of self destructing machines staged by contemporary artists Destruction in both its playful and fearsome aspects was ubiquitous in the new Atomic Age This complicated subjectivity was not just a way for people to find catharsis amid the fears of annihilation and postwar trauma but also a complex instantiation of ideological crisis in a time with some seriously conflicted political myths Destruction Rites explores the ephemeral visual culture of destruction in the postwar era and its links to contemporary art It examines the demolition derby games and toys based on warfare playgrounds situated in bomb sites and the rise of garage sales where goods designed for obsolescence and destined for the garbage heap are reclaimed and repurposed by local communities Mona Hadler looks at artists such as Jean Tinguely Niki de Saint Phalle Martha Rosler and Vito Acconci to expose how the 1960s saw destruction construction and the everyday collide as never before During the Atomic age whether in the public sphere or art museums destruction could be transformed into a constructive force and art objects and performances often oscillated

between the two      **The Human Radiation Experiments** Advisory Committee on Human Radiation Experiments,1996-06-06 This book describes in fascinating detail the variety of experiments sponsored by the U S government in which human subjects were exposed to radiation often without their knowledge or consent Based on a review of hundreds of thousands of heretofore unavailable or classified documents this Report tells a gripping story of the intricate relationship between science and the state Under the thick veil of government secrecy researchers conducted experiments that ranged from the mundane to such egregious violations as administering radioactive tracers to mentally retarded teenagers injecting plutonium into hospital patients and intentionally releasing radiation into the environment This volume concludes with a discussion of the Committee s key findings and guidelines for changes in institutional review boards ethics rules and policies and balancing national security interests with individual rights Ethicists public health professionals and those interested in the history of medicine and Cold War history will be intrigued by the findings of this landmark report

*Radiation Nation* Natasha Zaretsky,2018-02-13 On March 28 1979 the worst nuclear reactor accident in U S history occurred at the Three Mile Island power plant in Central Pennsylvania *Radiation Nation* tells the story of what happened that day and in the months and years that followed as local residents tried to make sense of the emergency The near meltdown occurred at a pivotal moment when the New Deal coalition was unraveling trust in government was eroding conservatives were consolidating their power and the political left was becoming marginalized Using the accident to explore this turning point Natasha Zaretsky provides a fresh interpretation of the era by disclosing how atomic and ecological imaginaries shaped the conservative ascendancy Drawing on the testimony of the men and women who lived in the shadow of the reactor *Radiation Nation* shows that the region s citizens especially its mothers grew convinced that they had sustained radiological injuries that threatened their reproductive futures Taking inspiration from the antiwar environmental and feminist movements women at Three Mile Island crafted a homegrown ecological politics that wove together concerns over radiological threats to the body the struggle over abortion and reproductive rights and eroding trust in authority This politics was shaped above all by what Zaretsky calls biotic nationalism a new body centered nationalism that imagined the nation as a living mortal being and portrayed sickened Americans as evidence of betrayal The first cultural history of the accident *Radiation Nation* reveals the surprising ecological dimensions of post Vietnam conservatism while showing how growing anxieties surrounding bodily illness infused the political realignment of the 1970s in ways that blurred any easy distinction between left and right      **Risk, Environment and Modernity** Scott Lash,Bronislaw Szerszynski,Brian Wynne,1996-01-31

This wide ranging and accessible contribution to the study of risk ecology and environment helps us to understand the politics of ecology and the place of social theory in making sense of environmental issues The book provides insights into the complex dynamics of change in risk societies      *Environmentalism* David Pepper, Frank Webster, George Revill,2003      *The Ashgate Research Companion to Modern Warfare* John Buckley, George Kassimeris,2016-03-23 This research collection

provides a comprehensive study of important strategic cultural ethical and philosophical aspects of modern warfare It offers a refreshing analysis of key issues in modern warfare not only in terms of the conduct of war and the wider complexities and ramifications of modern conflict but also concepts of war the crucial shifts in the structure of warfare and the morality and legality of the use of force in a post 9 11 age

**Celluloid Mushroom Clouds** Joyce Evans,2018-03-05 Celluloid Mushroom Clouds is a historical account of how the movie industry responded to specific economic and political forces over the postwar years Joyce Evans investigates the transformation of the imagery associated with atomic technology found in Hollywood films produced and distributed between 1947 and 1964 Incorporating qualitative and quantitative research methods over 90 are analyzed in terms of their historical context and the context of film production and distribution

*The Routledge History of Emotions in the Modern World* Katie Barclay,Peter N. Stearns,2022-08-09 The Routledge History of Emotions in the Modern World brings together a diverse array of scholars to offer an overview of the current and emerging scholarship of emotions in the modern world Across thirty six chapters this work enters the field of emotion from a range of angles Named emotions love anger fear highlight how particular categories have been deployed to make sense of feeling and their evolution over time Geographical perspectives provide access to the historiographies of regions that are less well covered by English language sources opening up global perspectives and new literatures Key thematic sections are designed to intersect with critical historiographies demonstrating the value of an emotions perspective to a range of areas Topical sections direct attention to the role of emotions in relations of power to intimate lives and histories of place as products of exchanges across groups and as deployed by new technologies and medias The concepts of globalisation and modernity run through the volume acting as foils for comparison and analytical tools The Routledge History of Emotions in the Modern World is the perfect resource for all students and scholars interested in the history of emotions across the world from 1700

**Atoms, Bytes and Genes** Martin W. Bauer,2015-02-11 Atom byte and gene are metonymies for techno scientific developments of the 20th century nuclear power computing and genetic engineering Resistance continues to challenge these developments in public opinion This book traces historical debates over atoms bytes and genes which raised controversy with consequences and argues that public opinion is a factor of the development of modern techno science The level and scope of public controversy is an index of resistance examined here with a pain analogy which shows that just as pain impacts movement resistance impacts techno scientific mobilization it signals that something is wrong and this requires attention elaboration and a response to the challenge This analysis shows how different fields of enquiry deal with the resistance of social psychological mentalities in the face of industrial scientific and political activities inspired by projected futures

Not June Cleaver Joanne Jay Meyerowitz,1994 In the popular stereotype of post World War II America women abandoned their wartime jobs and contentedly retreated to the home This work unveils the diversity of postwar women showing how far women departed from this one dimensional image

## Reviewing **Nuclear Fear A History Of Images**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Nuclear Fear A History Of Images**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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