



The Making Of The Atomic Age

Richard Rhodes



The Making Of The Atomic Age:

The Making of the Atomic Bomb Richard Rhodes, 2012-06-12 Winner of the Pulitzer Prize the National Book Award and the National Book Critics Circle Award The definitive history of nuclear weapons from the turn of the century discovery of nuclear energy to J Robert Oppenheimer and the Manhattan Project this epic work details the science the people and the sociopolitical 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

The Making of the Atomic Age Alwyn McKay, Herbert Alwyn Cochrane McKay, 1984 *The Apocalypse Factory: Plutonium and the Making of the Atomic Age* Steve Olson, 2020-07-28 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

The Making of the Atomic Bomb

Richard Rhodes,1986 Details the making of the atomic bomb Includes diagrams and pictures documenting people and places
The Manhattan Project Francis George Gosling,1999 A history of the origins and development of the American atomic bomb program during WWII Begins with the scientific developments of the pre war years Details the role of the U S government in conducting a secret nationwide enterprise that took science from the laboratory and into combat with an entirely new type of weapon Concludes with a discussion of the immediate postwar period the debate over the Atomic Energy Act of 1946 and the founding of the Atomic Energy Commission Chapters the Einstein letter physics background 1919 1939 early government support the atomic bomb and American strategy and the Manhattan district in peacetime Illustrated

Manhattan Project Cynthia C. Kelly,2009-02-10 The definitive collection of writings on the Manhattan Project by the pre eminent scientists historians and the everyday observers who bore witness to the birth of the modern nuclear age Begun in 1939 the Manhattan Project eventually employed more than 130 000 people including our foremost scientists and thinkers and cost nearly 2 billion while operating under a shroud of absolute secrecy This groundbreaking collection of documents essays articles and excerpts from histories biographies plays novels letters and the oral histories of key eyewitnesses provides unique perspectives for the historian and student of history all compiled by experts at the Atomic Heritage Foundation Photographs throughout depict key moments and pivotal figures The Manhattan Project gives actual voice to a significant period in history
James B. Conant: Harvard to Hiroshima and the Making of the Nuclear Age James Hershberg,2019-07-31 James B Conant 1893 1978 was one of the titans of mid 20th century American history attaining prominence and power in multiple fields Usually remembered as an educational leader he was president of Harvard University for two tumultuous decades from the Depression to World War II to the Cold War and McCarthyism To take that job he gave up a scientific career as one of the country s top chemists and he left it twenty years later to become Eisenhower s top diplomat in postwar Germany Hershberg s prize winning study however examines a critical aspect of Conant s life that was long obscured by government secrecy his pivotal role in the birth of the nuclear age During World War II as an advisor to Roosevelt and then Truman on the elite Interim Committee that considered how to employ the bomb against Japan Conant was intimately involved in the decisions to build and use the atomic bomb During and after the Manhattan Project he also led efforts to prevent a postwar nuclear arms race between the United States and the Soviet Union that he feared threatened the survival of civilization an apocalyptic prospect he glimpsed in the first instant of the new age when he witnessed the first test of the new weapon at Alamogordo on July 16 1945 a vivid inquiry a model of historiography evocative reading Conant was central to atomic policy and progress the bomb would be as much Conant s as it was anyone s in Government His inner response to that burden responsibility has long been obscured but it is illumined here Philip Morrison The New York Times Book Review In his splendid portrait of Conant James Hershberg has illuminated the life of a pivotal figure in the making of U S nuclear scientific educational and foreign policy for almost a half century But the book is much more It is not only an

insightful narration of Conant's life it is also a brilliant and important account of the making of the nuclear age a chronicle that contains much that is new Hershberg's superb study is a chronicle of Conant's moral journey and we are the wiser for his having charted Conant's path S S Schweber Washington Post Book World James G Hershberg ably comes to grips with Conant and his hazardous times His book is vibrantly written and compelling and it breaches Conant's shield of public discretion in masterly fashion making extensive use of unpublished interviews diaries reports and correspondence pried from private and governmental repositories It is a huge ambitious work a history of the Cold War as Conant encountered it as well as a study of the man Daniel J Kevles The New Yorker a well written comprehensive nonjudgmental but sensitive biography Conant was involved in so many and such critical events that students of almost any aspect of our public life over the past half century will find useful the new material and helpful insights in this book This fine biography of one of the most important and complicated of America's twentieth century leaders immediately establishes James Hershberg as one of America's outstanding young historians Stephen E Ambrose Foreign Affairs magnificent Any reader interested in nuclear weapons Cold War history or American politics from FDR to JFK will find this biography riveting Priscilla McMillan Chicago Tribune masterful The prose is clear the narrative forceful and the author's judgments are balanced and judicious This is simply splendid biography The highest praise one can give for a book of this sort is that the historian has not shrunk from speaking truth to power This book quietly but insistently does so It should be read by the public at large as one of the definitive texts on the cold war and the nuclear age Hershberg's triumph is that he has prevailed over all the official lies to give us one more layer of the historical truth Kai Bird The Nation riveting an impressive achievement honest and comprehensive in its scholarship the author has shown himself to be a historian of notable achievement and promise McGeorge Bundy Nature Hershberg's outstanding balanced biography lifts the self imposed secrecy surrounding a key architect of U S Cold War policy and of the nuclear age Publisher's Weekly an impressive and substantial achievement Hershberg has used the life of one strategically placed individual to illuminate the most important issues surrounding America's role and conduct in the nuclear age His book will be invaluable to scholars assessing the impact and legacy of the group who acquired the epithet wise men now that the Cold War has receded Carol S Gruber Science definitive a far more textured picture than one finds in Conant's own guarded and unrevealing autobiography an important and rewarding book illuminating Conant led a remarkable and eventful life in remarkable and eventful times James Hershberg has explored that life and those times in exhaustive and revealing detail Paul Boyer The New Republic James G Hershberg has achieved the impossible He has written a huge biography of a Harvard president that is fascinating informative and as valuable a piece of American history as anything I have read in years Mr Hershberg has brought us back vividly to an age that seems remote so long ago but the questions about nuclear proliferation are the same even while the answers are still ambiguous As we watch men struggling with unanticipated post Cold War problems and civil wars sprouting like Jason's men at arms it is good to

read this story about a complex man who deserves an important place in our history because he helped make that history possible Arnold Beichman The Washington Times engrossing A magisterial study of an awesome and intriguing public career Kirkus Reviews entertaining thought provocative Dick Teresi The Wall Street Journal Hershberg's book helps us more clearly understand the postwar Establishment and offers a challenging appraisal of the role of elites of universities and of the state Gar Alperovitz In These Times Hershberg deserves great credit for cracking a tough New England walnut analyzing this very important public figure demonstrating how he fit into his own time and showing us what we can learn from the man Daniel R Mortensen The Friday Review of Defense Literature a compelling account an engaging examination of one of the central figures of the nuclear age It succeeds in showing one man's intersection with great events and issues and in the process illuminates those issues for us all American Historical Review well written Conant's participation in one of our country's most dynamic periods is thanks to Hershberg now much better understood Library Journal A reader of the book will enter the realm of the greats the shapers of worlds created by the atomic blasts at Hiroshima and Nagasaki Conant was no bit player in Cold War history the book is very successful in weaving Conant's subsurface persona in with his ups and downs as a prominent and committed public figure And it leaves out little detail in describing top level decisions involving the Cold War geopolitics of nuclear weaponry Conant was a participant in most of these decisions with Presidents Roosevelt and Truman themselves their Secretaries of War and State and of course all the major scientific figures of the time Chemical Engineering News A wonderfully rich portrait that emerges from a carefully documented account of Conant's role in the development of the atomic bomb and post war nuclear policy An extraordinarily well written text Hershberg lays bare the person behind the persona warts dimples and all Stanley Goldberg Bulletin of the Atomic Scientists [The Manhattan Project](#) Francis Gosling, U.S. Department of Energy, 2015-08-15 In a national survey at the turn of the millennium journalists and historians ranked the dropping of the atomic bomb and the surrender of Japan to end the Second World War as the top story of the twentieth century The advent of nuclear weapons brought about by the Manhattan Project not only helped bring an end to World War II but ushered in the atomic age and determined how the next war the Cold War would be fought The Manhattan Project also became the organizational model behind the impressive achievements of American big science during the second half of the twentieth century which demonstrated the relationship between basic scientific research and national security

The Manhattan Project F. G. Gosling, 2014-12-03 In a national survey at the turn of the millennium journalists and historians ranked the dropping of the atomic bomb and the surrender of Japan to end the Second World War as the top story of the twentieth century Nuclear weapons brought about by the Manhattan Project helped bring an end to World War II and ushered in the atomic age and determined how the next war the Cold War would be fought The Manhattan Project also became the organizational model behind the impressive achievements of American big science during the second half of the 20th century which demonstrated the relationship between basic scientific research and national security This is the revised

edition of a comprehensive history of the origins and development of the American atomic bomb program during WWII Includes a Bibliography and Manhattan Project Chronology Figures This is a print on demand report **Atomic Bomb: The Story of the Manhattan Project** Bruce Cameron Reed, 2015-06-01 This volume prepared by an acknowledged expert on the Manhattan Project gives a concise fast paced account of all major aspects of the project at a level accessible to an undergraduate college or advanced high school student familiar with some basic concepts of energy atomic structure and isotopes The text describes the underlying scientific discoveries that made nuclear weapons possible how the project was organized the daunting challenges faced and overcome in obtaining fissile uranium and plutonium and in designing workable bombs the dramatic Trinity test carried out in the desert of southern New Mexico in July 1945 and the bombings of Hiroshima and Nagasaki **Manhattan Project: The Untold Story of the Making of the Atomic Bomb** Stephane Groueff, 2023-12-13 Groueff a Paris Match reporter was sponsored by The Reader s Digest to write this prodigious account of the multiple efforts which went into the creation of the first atomic bomb between 1942 and 1945 The book is a history of the men involved mainly and Groves the military commander is obviously the author s hero Reading like the account of a hurdle race the book charges into a discussion of a problem then finds and describes the man who bested it Thus are described the building of Oak Ridge Fermi s atomic pile the electromagnetic process the crises over the barrier and the valves for the gaseous diffusion process the last minute decisions concerning the implosion process with plutonium Groueff does convey well a scene of fantastic activity where different solutions to one problem were worked on simultaneously where industrial equipment came before scientific results were known where the impossible was achieved in time The material is fascinating and the scientific information is well presented an excellent overall view of a monumental project Kirkus Groueff has for the first time given due recognition to some of the minor figures particularly engineers and technicians and has preserved in his pages much information that would otherwise perish with the participants or lie forever buried in the archives Kendall Birr The American Historical Review Groueff covers the Manhattan Project from its beginning in 1942 to the bombing of Hiroshima he concentrates on the engineering and industrial effort that went into producing the first atomic weapons The result is a popular but responsible account episodic in structure rich in detail and human interest for the first time a book aimed at the mass market gives engineers and industrialists their due It is a great story of the almost incredibly complex task of translating theory into industrial and military reality Oscar E Anderson Jr Science So intriguing in fact and in style is the text of the narrative of this book that once begun it cannot be put down until the end In these pages the names and roles of some of the world s greatest scientists and engineers unfold in thrilling parade with Dr Vannevar Bush the leader These men of vast knowledge and ability unite with the commercial managers and their companies mobilized by the hundreds for the construction and operation of the many facilities involved Leo A Codd Ordnance Excellent maintains a high degree of exciting suspense Washington Star A fascinating account of a stupendous effort Chicago Tribune **World War II in Literature for**

Youth Patricia Hachten Wee, Robert James Wee, 2004-11-10 This comprehensive volume provides a wealth of information with annotated listings of more than 3 500 titles a broad sampling of books on the war years 1939 1945 Includes both fiction and nonfiction works about all aspects of the war Professional resources for educators aligned to the educational standards for social studies technical references periodicals and electronic resources a directory of WWII museums memorials and other institutions and topics for exploration complement this excellent library and classroom resource

Growth Growth Growth Julian Cobbing, 2024-04-11 Growth Growth Growth retells history as a succession of pivotal crises linked to economic growth Beginning with agriculture ten thousand years ago each crisis led to an impasse until human ingenuity devised a technical solution to fix it These solutions included the alphabet paper clocks guns the printing press the steam engine the petrol engine electricity nitrogen fertilizer and the computer Each solution however played a part in the next crisis Growth driven crises led to the world wars of the first half of the twentieth century including the atrocities of Stalin Hitler and Hiroshima The brief golden age of capitalism of the 1950s and 1960s gave way to the ultra corporate capitalism that in one variant or another is now the global economic system Julian Cobbing's lively account exposes the historical roots of our converging problems the destruction of the environment the massacre of other species the running down of oil reserves global heating and the nuclear threat to all of us This time there is no technical solution since we are devouring the Earth's finite resources Cobbing reminds us that we are just one species in a planetary life system which could dispense with us if we are not needed

Dark Sun Richard Rhodes, 2012-09-18 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

Savannah River Site at Fifty Mary Beth Reed, 2002 The heart of the book is a historical treatment of Savannah River Site's operations its peak period of production 1953 to 1979 Developments in reactor technology and chemical separations heavy water production waste management and the research goals of the Savannah River Laboratory are described in layman's terms and are amply illustrated This history profiles the individuals who brought the plant to maturity and explores the two themes that define the nuclear weapons workplace safety and security

Top Secret: The Story of the Manhattan Project Kathleen Tracy, 2006-03 In the 1930s Hitler's Germany became the most powerful and feared country in Europe Hitler was determined to control the entire continent After the shocking attack on Pearl Harbor the United States declared war on Japan In turn Germany declared war on America igniting World War II The biggest concern for America and the Allies was that Hitler was working on a nuclear super bomb Believing the fate of the world hung in the balance President Franklin Roosevelt approved a top secret project known as the Manhattan Project to create the first atomic weapon In a race against the clock and under the direction of J

Robert Oppenheimer scientists from all over the world working at the Los Alamos Laboratory in New Mexico spent four years developing what would become the world's deadliest weapon. The decision to use the bomb on Japanese citizens ended World War II but began a controversy that rages to this day. *Congressional Record* United States Congress, 1978. The *Congressional Record* is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The *Congressional Record* began publication in 1873. Debates for sessions prior to 1873 are recorded in *The Debates and Proceedings in the Congress of the United States 1789-1824*, the *Register of Debates in Congress 1824-1837*, and the *Congressional Globe 1833-1873*. *The Columbia Guide to Hiroshima and the Bomb* Michael Kort, 2007-04-10. Few aspects of American military history have been as vigorously debated as Harry Truman's decision to use atomic bombs against Japan. In this carefully crafted volume, Michael Kort describes the wartime circumstances and thinking that form the context for the decision to use these weapons, surveys the major debates related to that decision, and provides a comprehensive collection of key primary source documents that illuminate the behavior of the United States and Japan during the closing days of World War II. Kort opens with a summary of the debate over Hiroshima as it has evolved since 1945. He then provides a historical overview of the events in question, beginning with the decision and program to build the atomic bomb. Detailing the sequence of events leading to Japan's surrender, he revisits the decisive battles of the Pacific War and the motivations of American and Japanese leaders. Finally, Kort examines ten key issues in the discussion of Hiroshima and guides readers to relevant primary source documents, scholarly books, and articles.

World Politics and the Evolution of War John J. Weltman, 1995. In this comprehensive study, international relations scholar John Weltman explores the many roles of war in world politics. With topics ranging from the development of strategic thought to the effects of war on political and technological change, from the uses of force and threats of force to the uses of arms control, from the prominence of war in history to its likely fate in the post-Cold War world, Weltman's analysis offers a detailed, thoroughgoing, and rigorous overview of the subject. Throughout, Weltman questions a number of widely held assumptions. To the conventional argument that the number of players in the international system determines the incidence and character of war, he responds with evidence that suggests that the social, material, and intellectual context within which conflicts occur is far more influential. Weltman also questions the prevailing wisdom that democracies are inherently peaceful and autocracies inherently warlike, arguing instead that the propensity to wage war and the effects of war are largely the products of prevailing expectations. Whether or not war offers a means for the cheap, easy, and decisive accomplishment of a government's objectives, he criticizes the dominant view that conflict, even violent conflict, is psychologically abnormal. Drawing upon the traditional distinction between wars of attrition and wars of annihilation, Weltman sees the trend toward the former despite the anomalous Persian Gulf conflict as likely to continue. While this trend does not suggest the end of warfare, much less the end of history, it does imply the localization of conflict and the minimization of the danger of global conflagration. The new world

order Weltman concludes will be far from peaceful but the conflicts that do arise will be slow burning and difficult to spread. Outside intervention in these conflicts will be costly.

Nagasaki Susan Southard, 2017-08-31

On August 9th 1945 the US dropped an atomic bomb on Nagasaki. It killed a third of the population instantly and the survivors or hibakusha would be affected by the life altering medical conditions caused by the radiation for the rest of their lives. They were also marked with the stigma of their exposure to radiation and fears of the consequences for their children. *Nagasaki* follows the previously unknown stories of five survivors and their families from 1945 to the present day. It captures the full range of pain, fear, bravery and compassion unleashed by the destruction of a city. Susan Southard has interviewed the hibakusha over many years and her intimate portraits of their lives show the consequences of nuclear war. *Nagasaki* tells the neglected story of life after nuclear war and will help shape public debate over one of the most controversial wartime acts in history.

Published for the 70th anniversary of the Hiroshima and Nagasaki bombs, this is the first study to be based on eye witness accounts of Nagasaki in the style of John Hersey's *Hiroshima*.

On August 9th 1945, three days after the atomic bombing of Hiroshima, a 5 tonne plutonium bomb was dropped on the small coastal city of Nagasaki. The explosion destroyed factories, shops and homes and killed 74,000 people while injuring another 75,000. The two atomic bombs marked the end of a global war, but for the tens of thousands of survivors it was the beginning of a new life marked with the stigma of being hibakusha.

Atomic bomb affected people: Susan Southard has spent a decade interviewing and researching the lives of the hibakusha, raw, emotive eye witness accounts which reconstruct the days, months and years after the bombing, the isolation of their hospitalisation and recovery, the difficulty of re-entering daily life and the enduring impact of life as the only people in history who have lived through a nuclear attack and its aftermath.

Following five teenage survivors from 1945 to the present day, Southard unveils the lives they have led, their injuries in the annihilation of the bomb, the dozens of radiation related cancers and illnesses they have suffered, the humiliating and frightening choices about marriage they were forced into as a result of their fears of the genetic diseases that may be passed through their families for generations to come.

The power of *Nagasaki* lies in the detail of the survivors' stories as deaths continued for decades because of the radiation contamination which caused various forms of cancer. Intimate and compassionate while being grounded in historical research, *Nagasaki* reveals the censorship that kept the suffering endured by the hibakusha hidden around the world.

For years after the bombings, news reports and scientific research were censored by US occupation forces and the US government led an efficient campaign to justify the necessity and morality of dropping the bombs.

As we pass the seventieth anniversary of the only atomic bomb attacks in history, Susan Southard captures the full range of pain, fear, bravery and compassion unleashed by the destruction of a city. The personal stories of those who survived beneath the mushroom clouds will transform the abstract perception of nuclear war into a visceral human experience.

Nagasaki tells the neglected story of life after nuclear war and will help shape public discussion and debate over one of the most controversial wartime acts in history.

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