

**RICHARD RHODES**  
**THE MAKING  
OF THE  
ATOMIC BOMB**

*"THE COMPREHENSIVE HISTORY OF THE BOMB—  
AND ALSO A WORK OF LITERATURE."* TRACY KIDDER



**RICHARD  
RHODES**

AND  
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**THE MAKING OF  
THE ATOMIC BOMB**

# **Making Of The Atomic Bomb English Edition**

**Bruce Cameron Reed**



## **Making Of The Atomic Bomb English Edition:**

**The Making of the Atomic Bomb** Richard Rhodes, 2012-06-12 Traces the development of the atomic bomb from Leo Szilard's concept through the drama of the race to build a workable device to the dropping of the bomb on Hiroshima [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 *History of Atomic Energy Collection at Oregon State University*, 1990 [The Physics of the Manhattan Project](#) Bruce Cameron Reed, 2021-01-02 The development of nuclear weapons during the Manhattan Project is one of the most significant scientific events of the twentieth century This revised and updated 4th edition explores the challenges that faced the scientists and engineers of the Manhattan Project It gives a clear introduction to fission weapons at the level of an upper year undergraduate physics student by examining the details of nuclear reactions their energy release analytic and numerical models of the fission process how critical masses can be estimated how fissile materials are produced and what factors complicate bomb design An extensive list of references and a number of exercises for self study are included Revisions to this fourth edition include many upgrades and new sections Improvements are made to among other things the analysis of the physics of the fission barrier the time dependent simulation of the explosion of a nuclear weapon and the discussion of tamped bomb cores New sections cover for example composite bomb cores approximate methods for various of the calculations presented and the physics of the polonium beryllium neutron initiators used to trigger the bombs The author delivers in this book an unparalleled clear and comprehensive treatment of the physics behind the Manhattan project **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

**The Manhattan Project** Al Cimino, 2015-07-14 The ramifications of the Manhattan Project are still with us to this day The atomic bombs that came out of it brought an end to the war in the Pacific but at a heavy loss of life in Japan and the opening of a Pandora s box that has tested international relations This book traces the history of the Manhattan Project from the first glimmerings of the possibility of such a catastrophic weapon to the aftermath of the bombings of Hiroshima and Nagasaki It profiles the architects of the bomb and how they tried to reconcile their personal feelings with their ambition as scientists It looks at the role of the politicians and it includes first hand accounts of those who experienced the effects of the bombings

The Manhattan Project Cynthia C. Kelly, 2020-07-07 On the seventy fifth anniversary of the first atomic bomb discover new reflections on the Manhattan Project from President Barack Obama hibakusha survivors and the modern day mayors of Hiroshima and Nagasaki The creation of the atomic bomb during World War II codenamed the Manhattan Project was one of the most significant and clandestine scientific undertakings of the 20th century It forever changed the nature of war and cast a shadow over civilization Born out of a small research program that began in 1939 the Manhattan Project would eventually employ nearly 600 000 people and cost about 2 billion 28 5 billion in 2020 all while operating under a shroud of complete secrecy On the 75th anniversary of this profoundly crucial moment in history this newest edition of The Manhattan Project is updated with writings and reflections from the past decade and a half This groundbreaking collection of essays articles documents and excerpts from histories biographies plays novels letters and oral histories remains the most comprehensive collection of primary source material of the atomic bomb

AB Bookman's Weekly , 1987-11 Remembering The

Manhattan Project - Perspectives On The Making Of The Atomic Bomb & Its Legacy Cynthia C Kelly,2005-01-27 During World War II nations raced to construct the world's first nuclear weapon that would determine the future of the world The Manhattan Project one of the most significant achievements of the 20th century was the culmination of America's war effort Today although the issue of nuclear weapons frequently dominates world politics few are aware of the history behind its development Part I of this book comprised of papers from the Atomic Heritage Foundation's Symposium on the Manhattan Project recounts the history of this remarkable effort and reflects upon its legacy Most of the original structures of the Manhattan Project have been inaccessible to the public and in recent years have been stripped of their equipment and slated for demolition Part II proposes a strategy for preserving these historical artifacts for the public and future generations This book has been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP ISI Proceedings Index to Social Sciences Humanities Proceedings ISSHP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences **Remembering the Manhattan Project** Cynthia C. Kelly,2005-01-27 During World War II nations raced to construct the world's first nuclear weapon that would determine the future of the world The Manhattan Project one of the most significant achievements of the 20th century was the culmination of America's war effort Today although the issue of nuclear weapons frequently dominates world politics few are aware of the history behind its development Part I of this book comprised of papers from the Atomic Heritage Foundation's Symposium on the Manhattan Project recounts the history of this remarkable effort and reflects upon its legacy Most of the original structures of the Manhattan Project have been inaccessible to the public and in recent years have been stripped of their equipment and slated for demolition Part II proposes a strategy for preserving these historical artifacts for the public and future generations The Manhattan Project B. Cameron Reed,2017-05-22 The development of nuclear weapons by the Manhattan Project during World War II was one of the most dramatic scientific technological episodes in human history This book prepared by a recognized expert on the Manhattan Project offers a concise survey of the essential physics concepts underlying fission weapons The text describes the energetics and timescales of fast neutron chain reactions why only certain isotopes of uranium and plutonium are suitable for use in fission weapons how critical mass and bomb yield can be estimated how the efficiency of nuclear weapons can be enhanced how the fissile forms of uranium and plutonium were obtained some of the design details of the Little Boy and Fat Man bombs and some of the thermal shock and radiation effects of nuclear weapons Calculation exercises are provided and a Bibliography lists authoritative print and online sources of information for readers who wish to pursue more detailed study of this fascinating topic **The Los Alamos Primer** Robert Serber,2020-04-07 More than seventy years ago American forces exploded the first atomic bombs over the Japanese cities of Hiroshima and Nagasaki causing great physical and human destruction The young scientists at Los Alamos who developed the bombs which were nicknamed Little Boy and Fat Man were introduced to the basic principles and goals of the

project in March 1943 at a crash course in new weapons technology The lecturer was physicist Robert Serber J Robert Oppenheimer's protégé and the scientists learned that their job was to design and build the world's first atomic bombs Notes on Serber's lectures were gathered into a mimeographed document titled *The Los Alamos Primer* which was supplied to all incoming scientific staff The *Primer* remained classified for decades after the war Published for the first time in 1992 the *Primer* offers contemporary readers a better understanding of the origins of nuclear weapons Serber's preface vividly conveys the mingled excitement uncertainty and intensity felt by the Manhattan Project scientists This edition includes an updated introduction by Pulitzer Prize winning historian Richard Rhodes A seminal publication on a turning point in human history The *Los Alamos Primer* reveals just how much was known and how terrifyingly much was unknown midway through the Manhattan Project No other seminar anywhere has had greater historical consequences

**The Presidency of Franklin Delano Roosevelt** George T. McJimsey, 2000 Concise and refreshingly balanced this history portrays FDR as he confronted crises of epic proportions during his record 12 year tenure as our nation's chief executive McJimsey gives a fresh account of Roosevelt's landmark administration and offers a new perspective on the New Deal 12 photos

**Bernard Brodie and the Foundations of American Nuclear Strategy** Barry Howard Steiner, 1991 Steiner analyzes how and why Brodie's understanding of weapons of unparalleled explosive force led him to posit the need for revolutionary strategic thinking in broadminded analytic method and in the focus upon cities as nuclear targets He shows the tremendous effect Brodie's work had on the intellectual climate in which policy is determined particularly in his frequent combatting of conventional wisdom

[Dark Sun](#) Richard Rhodes, 1996-08-06 Tells the story of the making of the H bomb and reveals how it created a nuclear stalemate that lasted forty years

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