



# THE MANHATTAN PROJECT

# The Manhattan Project

**Al Cimino**



## **The Manhattan Project:**

**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

*The Manhattan Project* Jeff A. Hughes, 2002 Established in 1942 the Manhattan Project brought together an international team of scientists in a top secret quest beating the Nazis to the atomic bomb Their Little Boy and Fat Man bombs destroyed Hiroshima and Nagasaki in August 1945 In one terrible swoop humans could now kill potentially millions of fellow humans It was the dawn of a new age in war in politics and so Jeff Hughes deftly explains in science

**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

**The Manhattan Project** Sue Vander Hook, 2011-01-01 Explores events leading up to the top secret Manhattan Project during World War II key players involved their lives during the project the development and use of the atomic bomb its aftermath and its effects on society

*The Manhattan Project and the Dropping of the Atomic Bomb* Aaron Barlow, 2019-11-08 This invaluable resource offers students a comprehensive overview of the Manhattan Project and the decision to drop the atomic bomb with more than 80 in depth articles on a variety of topics and dozens of key primary source documents This book provides everything readers need to know about the Manhattan Project the U S program that led to the development of the atomic bomb during World War II It begins with a detailed introduction to the project and includes an alphabetical collection of relevant entries on such topics as the Enola Gay the first aircraft to drop an atomic bomb Enrico Fermi creator of the first nuclear reactor Hiroshima the target of the first atomic bomb and Robert Oppenheimer director of the Manhattan Project Dozens of primary sources include eyewitness accounts government memos letters press releases and other important documents relevant to the establishment and success of the Manhattan Project A set of four essays written by prominent scholars address whether the United States was justified in dropping the atomic bomb on Japan The book also

includes a comprehensive chronology that reveals key moments related to the creation of the world's first nuclear weapon as well as a bibliography of resources that points readers toward additional information on the Manhattan Project nuclear weapons and World War II     Now it Can be Told Leslie R. Groves, 1962 Bogens overskrifter The beginning of the MED Manhattan Engineer District First steps The uranium ore supply The plutonium project Los Alamos Hanford Oak Ridge Negotiations with the British Security arrangements and press censorship The combined development trust Military intelligence ALSOS I II III Italy France Germany A serious military problem The problem of the French scientists Training the air unit Choosing the target Tinian Alamogordo Operational plans Hiroshima The Germans hear the news Nagasaki The MED and the Congress The destruction of the Japanese Cyclotrons Transition period The AEC Postwar developments A final word

**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     The History and Science of the Manhattan Project Bruce Cameron Reed, 2013-10-16 The development of atomic bombs under the auspices of the U S Army's Manhattan Project during World War II is considered to be the outstanding news story of the twentieth century In this book a physicist and expert on the history of the Project presents a comprehensive overview of this momentous achievement The first three chapters cover the history of nuclear physics from the discovery of radioactivity to the discovery of fission and would be ideal for instructors of a sophomore level Modern Physics course Student level exercises at the ends of the chapters are accompanied by answers Chapter 7 covers the physics of first generation fission weapons at a similar level again accompanied by exercises and answers For the interested layman and for non science students and instructors the book includes extensive qualitative material on the history organization implementation and results of the Manhattan Project and the Hiroshima and Nagasaki bombing missions The reader also learns about the legacy of the Project as reflected in the current world stockpiles of nuclear weapons     *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 Secret of the Manhattan Project Doreen Gonzales,2012-01-01 Describes the events and people surrounding the creation of the atomic bomb and examines the effects of its use during World War II

**The Manhattan Project** John F. Wukovits,2014-03-14 This informative edition tells the story of the Manhattan Project The book describes how the project came to fruition the people involved and the impact that the nuclear bomb had on World War II The book also details the lives of the people who worked on the project along with that of their families and how they had to basically cut all ties to the outside world

*Top Secret: The Story of the Manhattan Project* Kathleen Tracy,2020-02-04 Describes the events and people involved in the making of the atomic bomb

*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

**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

*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 *Atomic Spaces* Peter Bacon Hales,1999-04 Code named the Manhattan Project the detailed plans for developing an atomic bomb were impelled by urgency and shrouded in secrecy This book tells the story of the project s three key sites Oak Ridge Tennessee Hanford Washington and Los Alamos New Mexico *Manhattan Project* Bruce Cameron Reed,2020-06-02 Though thousands of articles and books have been published on various aspects of the Manhattan Project this book is the first comprehensive single volume history prepared by a specialist for curious readers without a scientific background This project the United States Army s program to develop and deploy atomic weapons in World War II was a pivotal event in human history The author presents a wide ranging survey that not only tells the story of how the project was organized and carried out but also introduces the leading personalities involved and features simplified but accurate descriptions of the underlying science and the engineering challenges The technical points are illustrated by reader friendly graphics 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 **The Manhattan Project** Amelia Khatri,AI,2025-02-17 The Manhattan Project explores the United States top secret endeavor during World War II to develop the atomic bomb It examines the scientific breakthroughs logistical challenges and ethical dilemmas that shaped this pivotal moment in military history The book highlights the unprecedented collaboration and resource mobilization required

for success emphasizing the complex interplay of science politics and morality It offers a comprehensive account of how the project revolutionized warfare and international relations from nuclear fission to the bombings of Hiroshima and Nagasaki The book unfolds by introducing key figures and scientific concepts then traces the bomb s development from theory to realization at Los Alamos Central chapters detail the construction of massive production facilities like Oak Ridge and Hanford The book culminates with an examination of the decision to use the bomb and its long term implications offering insight into the ongoing debates surrounding nuclear proliferation and scientific responsibility Through primary sources and detailed production records the book avoids sensationalism providing a nuanced fact based narrative of this transformative event

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