



The Atom Bomb Project

James P. Delgado



The Atom Bomb 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 Atom Bomb Project Dale Anderson, Sabrina Crewe, 2004-12-15 Discusses the work of the Manhattan Project to develop and test an atomic bomb as well as the decision to use it during World War II [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 *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 Al Cimino, 2025-06-03 The dropping of the first atomic bomb on Hiroshima on 6 August 1945 announced to the world that nuclear weapons were no longer the stuff of imagination From its inception in 1941 the Manhattan Project saw some of the West's best physicists and engineers develop the most potent armament known to man In this book Al Cimino explains the events that led to President Roosevelt sanctioning the development of the bomb and recounts the dramatic story of how a gifted and often conflicted group of people devoted themselves to unlocking the secrets of nuclear fission

The Manhattan Project Jeff A. Hughes, 2003 Launched in 1942 the Manhattan Project was a well funded secret effort by the United States the United Kingdom and Canada to develop an atomic bomb before the Nazis The results the bombs named Little Boy and Fat Man were dropped on Hiroshima and Nagasaki in August of 1945 A vast state within a state the Manhattan Project employed 130 000 people and cost the United States and its allies 2 billion dollars but its contribution to science as a prestigious investment was invaluable After the bombs were dropped states began allocating unprecedented funds for scientific research leading to the establishment of many of twentieth century's major research institutions Yet the union of science industry and the military did not start with the development of the atomic bomb World War II only deepened the relationship This absorbing history revisits the interactions among science the national interest and public and private funding that was initiated in World War I and flourished in WWII It then follows the Manhattan Project from inception to dissolution describing the primary influences that helped execute the world's first successful plan for nuclear research and tracing the lineages of modern national nuclear agencies back to their source

Remembering the Manhattan Project Cynthia C. Kelly, 2004 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

Nuclear Dawn James P. Delgado, 2011-12-20 The obliteration of Hiroshima and Nagasaki in August 1945 brought the world to a stand still This unimaginable shock confirmed to the world that the race to develop a working atomic weapon during World War II had been won by the American led international effort Horrific and controversial even today these first uses of the atomic bomb had intense ramifications not only on the continued development of the bomb but also on politics and popular culture

As well as the technological development historian James Delgado also examines how the US Army Air Force had to develop the capacity to deliver the weapons and examines the sites where development and testing took place in order to give a comprehensive history of the dawning of the nuclear age

Now It Can Be Told Leslie M. Groves, 2009-08-11 A first person account of the Manhattan Project by the general who hired and worked alongside Robert Oppenheimer General Leslie Groves and J Robert Oppenheimer were the two men chiefly responsible for the building of the first atomic bomb at Los Alamos code name the Manhattan Project As the ranking military officer in charge of marshaling men and material for what was to be the most ambitious expensive engineering feat in history it was General Groves who hired Oppenheimer with knowledge of his left wing past planned facilities that would extract the necessary enriched uranium and saw to it that nothing interfered with the accelerated research and swift assembly of the weapon This is his story of the political logistical and personal problems of this enormous undertaking which involved foreign governments sensitive issues of press censorship the construction of huge plants at Hanford and Oak Ridge and a race to build the bomb before the Nazis got wind of it The role of Groves in the Manhattan Project has always been controversial In his new introduction the noted physicist Edward Teller who was there at Los Alamos candidly assesses the general's contributions and Oppenheimer's while reflecting on the awesome legacy of their work The basic story is a thriller as strange as any chapter in American history and its drama is heightened by the general's candor and restraint *The New Yorker*

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 Al Cimino, 2016-03-15 In this book Al Cimino explains the secrets that led to President Roosevelt sanctioning the development of the bomb and recounts the dramatic story of how a gifted and often conflicted group of people devoted themselves to unlocking the secret of nuclear fission Back cover

[Heisenberg and the Nazi Atomic Bomb Project, 1939-1945](#) Paul Lawrence Rose, 2023-11-15 No one better represents the plight and the conduct of German intellectuals under Hitler than Werner Heisenberg whose task it was to build an atomic bomb for Nazi Germany

The controversy surrounding Heisenberg still rages because of the nature of his work and the regime for which it was undertaken. What precisely did Heisenberg know about the physics of the atomic bomb? How deep was his loyalty to the German government during the Third Reich? Assuming that he had been able to build a bomb, would he have been willing? These questions, the moral and the scientific, are answered by Paul Lawrence Rose with greater accuracy and breadth of documentation than any other historian has yet achieved. Digging deep into the archival record among formerly secret technical reports, Rose establishes that Heisenberg never overcame certain misconceptions about nuclear fission and as a result the German leaders never pushed for atomic weapons. In fact, Heisenberg never had to face the moral problem of whether he should design a bomb for the Nazi regime. Only when he and his colleagues were interned in England and heard about Hiroshima did Heisenberg realize that his calculations were wrong. He began at once to construct an image of himself as a pure scientist who could have built a bomb but chose to work on reactor design instead. This was fiction, as Rose demonstrates in reality. Heisenberg blindly supported and justified the cause of German victory. The question of why he did and why he misrepresented himself afterwards is answered through Rose's subtle analysis of German mentality and the scientists' problems of delusion and self-delusion. This fascinating study is a profound effort to understand one of the twentieth century's great enigmas. No one better represents the plight and the conduct of German intellectuals under Hitler than Werner Heisenberg, whose task it was to build an atomic bomb for Nazi Germany.

The controversy surrounding Heisenberg still rages because of the nature of his work. **Atomic Bomb Island** Don A. Farrell, 2021-01-15. **Atomic Bomb Island** tells the story of an elite top secret team of sailors, airmen, scientists, technicians, and engineers who came to Tinian in the Marianas in the middle of 1945 to prepare the island for delivery of the atomic bombs then being developed in New Mexico to finalize the designs of the bombs themselves and to launch the missions that would unleash hell on Japan. Almost exactly a year before the atomic bombs were dropped, strategically important Tinian was captured by Marines because it was only 1,500 miles from Japan and its terrain afforded ideal runways from which the new B-29 bombers could pound Japan. In the months that followed, the U.S. turned virtually all of Tinian into a giant airbase with streets named after those of Manhattan Island, a Marianas city where the bombs could be assembled; the heavily laden B-29s could be launched; and the Manhattan Project scientists could do their last work. Don Farrell has done this story incredible justice for the 75th anniversary. The book is a thoroughly researched, beautifully illustrated mosaic of the final phase of the Manhattan Project from the Battle of Tinian and the USS Indianapolis to 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

Manhattan Project Ryan Gale,2021-08-01 The US Army hired more than 125 000 people to help develop the atomic bombs They worked and lived in remote areas and they couldn t tell anyone about their work This secretive program was known as the Manhattan Project The Manhattan Project explores the workers experiences and the development of the atomic bombs Easy to read text vivid images and helpful back matter give readers a clear look at this subject Features include a table of contents infographics a glossary additional resources and an index Aligned to Common Core Standards and correlated to state standards Core Library is an imprint of Abdo Publishing a division of ABDO

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

Now It Can Be Told Leslie R. Groves,1975-05-21 Groves s astuteness is most

clearly demonstrated in that in spite of every contraindication from the military security division whose value and function he supported and even overestimated he selected Oppenheimer as scientific director Oppie knew in detail the research going on in every part of the laboratory and was as excellent at analyzing human problems as the countless technical ones He knew how to lead without seeming to do so **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 Michael B. Stoff, Jonathan F. Fanton, Richard Hal Williams, 1991

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