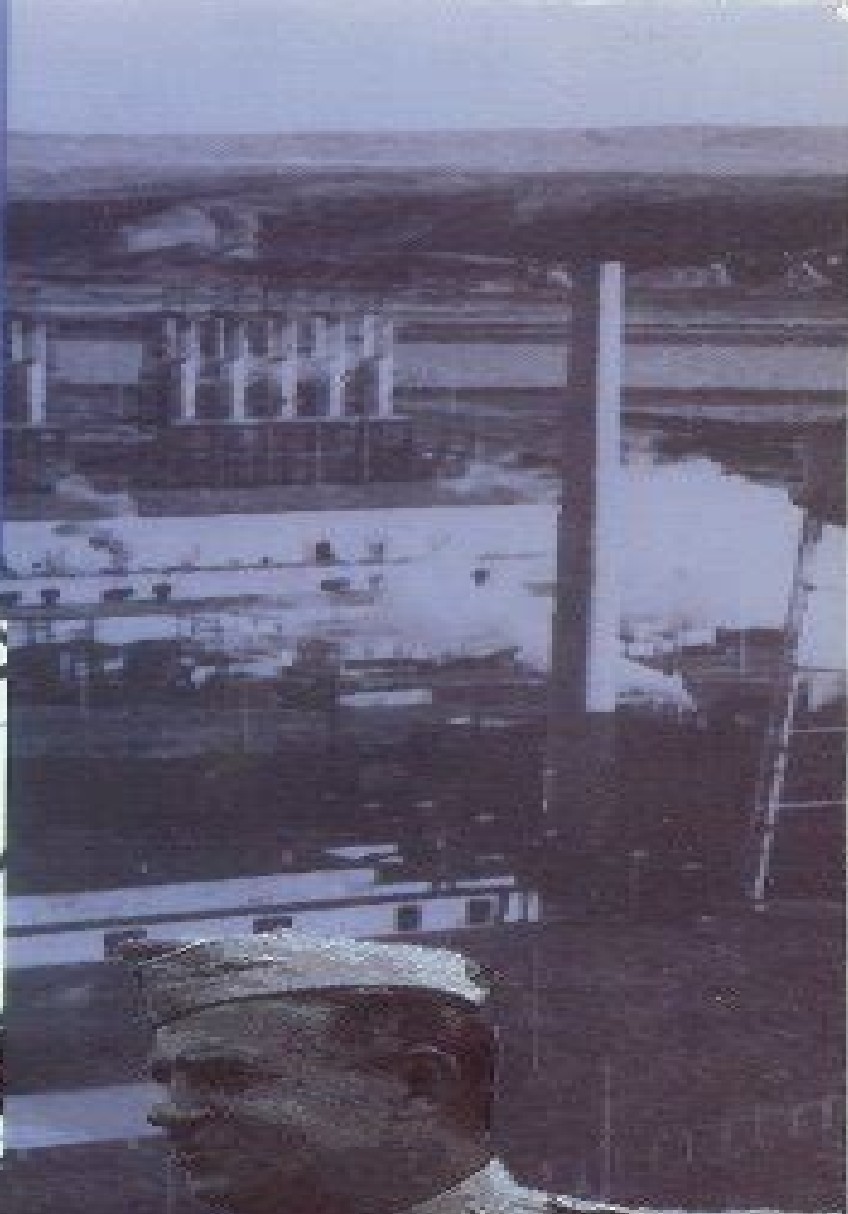


The Manhattan Project

A Documentary Introduction
to the Atomic Age

MICHAEL B. STOFF
JONATHAN F. FANTON
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The Manhattan Project A Documentary Introduction To The Atomic Age

Rachel Sandford



The Manhattan Project A Documentary Introduction To The Atomic Age:

The Manhattan Project Michael B. Stoff, Jonathan F. Fanton, Richard Hal Williams, 1991 **Manhattan Project**, 2000

The scientists and engineers who helped build the world's first nuclear weapon reflect on their accomplishments and legacy

The Manhattan Project Michael B. Stoff, Jonathan F. Fanton, 1991 **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*

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 Physics of the Manhattan Project** B. Cameron

Reed, 2010-10-05 The development of nuclear weapons during the Manhattan Project is one of the most significant scientific events of the twentieth century This book prepared by a gifted teacher of physics explores the challenges that faced the members of the Manhattan project In doing so it gives a clear introduction to fission weapons at the level of an upper level undergraduate physics student Details of nuclear reactions their energy release the fission process how critical masses can be estimated how fissile materials are produced and what factors complicate bomb design are covered An extensive list of references and a number of problems for self study are included Links are given to several spreadsheets with which users can run many of the calculations for themselves *The History and Science of the Manhattan Project* Bruce Cameron

Reed, 2019-02-19 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 This second edition contains important revisions and additions including a new chapter on the German atomic bomb program and new sections on British and Canadian contributions to the Manhattan project and on feed materials Several other sections have been expanded reader feedback has been helpful in introducing minor corrections and improved explanations and last but not least the second edition includes a detailed index

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

Atomic Age America Martin V. Melosi, 2016-09-13 Atomic Age America looks at the broad influence of atomic energy focusing particularly on nuclear weapons and nuclear power on the lives of Americans within a world context The text examines the social political diplomatic environmental and technical impacts of atomic energy on the 20th and 21st centuries with a look back to the origins of atomic theory

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 into 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 of 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 mined 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 and 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's 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*. *World War II*: Spencer C. Tucker, 2016-09-06. With more than 1,700 cross-referenced entries covering every aspect of World War II, the events and developments of the era, and myriad related subjects, as well as a documents volume, this is the most comprehensive reference work available on the war. This encyclopedia represents a single source of

authoritative information on World War II that provides accessible coverage of the causes course and consequences of the war Its introductory overview essays and cross referenced A Z entries explain how various sources of friction culminated in a second worldwide conflict document the events of the war and why individual battles were won and lost and identify numerous ways the war has permanently changed the world The coverage addresses the individuals campaigns battles key weapons systems strategic decisions and technological developments of the conflict as well as the diplomatic economic and cultural aspects of World War II The five volume set provides comprehensive information that gives readers insight into the reasons for the war s direction and outcome Readers will understand the motivations behind Japan s decision to attack the United States appreciate how the concentration of German military resources on the Eastern Front affected the war s outcome understand the major strategic decisions of the war and the factors behind them grasp how the Second Sino Japanese War contributed to the start of World War II and see the direct impact of new military technology on the outcomes of the battles during the conflict The lengthy documents volume represents a valuable repository of additional information for student research *Eisenhower, Science Advice, and the Nuclear Test-Ban Debate, 1945-1963* Benjamin P. Greene, 2007

Based on extensive research in government archives and private papers this book analyzes the secret debate within the Eisenhower administration over the pursuit of a nuclear test ban agreement In contrast to much recent scholarship this study concludes that Eisenhower strongly desired to reach an accord with the Soviet Union and the United Kingdom to cease nuclear weapons testing For Eisenhower a test ban would ease Cold War tensions slow the nuclear arms race and build confidence toward disarmament however he faced continual resistance from his early scientific advisers most notably Lewis L Strauss and Edward Teller Extensive research into previously unavailable government archival sources and collections of private manuscripts reveals the manipulative acts of test ban opponents and other factors that inhibited Eisenhower s actions throughout his presidency Meticulously analyzed these sources underscore Eisenhower s dependence on the counsel of his science advisors such as Strauss James R Killian and George B Kistiakowsky to determine the course he pursued in regard to several components of his national security strategy In addition to its comprehensive analysis of the test ban debate this book makes important contributions to the scholarly literature assessing Eisenhower s leadership and his approach to arms control

The Decision to Use the Atomic Bomb Gar Alperovitz, 2010-12-29 With a new preface by the author Controversial in nature this book demonstrates that the United States did not need to use the atomic bomb against Japan Alperovitz criticizes one of the most hotly debated precursory events to the Cold War an event that was largely responsible for the evolution of post World War II American politics and culture **Writing War in the Twentieth Century** Margot Norris, 2000 The twentieth century will be remembered for great innovation in two particular areas art and culture and technological advancement Much of its prodigious technical inventiveness however was pressed into service in the conduct of warfare Why asks Margot Norris did violence and suffering on such an immense scale fail to arouse artistic and cultural expressions

powerful enough to prevent the recurrence of these horrors Why was art not more successful through its use of dramatic emotionally charged material its ability to stir imagination and arouse empathy and outrage in producing an alternative to the military logic that legitimates war Military argument in the twentieth century has been fortified by the authority of the rationalism that we attribute to science Norris argues Warfare is therefore legitimized by powerful discourses that art s own arsenal of styles and genres has limited power to counter Art s difficulty in representing the violent death of entire generations or populations has been particularly acute Choosing works that have become representative of their historically violent moment Norris explores not only their aesthetic strategies and perspectives but also the nature of the power they wield and the ethical engagements they enable or impede She begins by mapping the altered ethical terrain of modern technological warfare with its increasing targeting of civilian populations for destruction She then proceeds historically with chapters on the trench poetry and modernist poetry of World War I Hemingway s A Farewell to Arms and Erich Maria Remarque s All Quiet on the Western Front both the book and the film of Schindler s List the conflicting historical stories of the Manhattan Project a comparison of American and Japanese accounts of Hiroshima Francis Ford Coppola s film Apocalypse Now and the effects of press censorship in the Persian Gulf War By looking at the whole span of the century s writing on war Norris provides a fascinating critique of art s ethical power and limitations along with its participation in as well as protest against the suffering that human beings have brought upon themselves

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 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

Hiroshima Andrew J. Rotter,2008-02-28 The US decision to

drop an atomic bomb on the Japanese city of Hiroshima on 6 August 1945 remains one of the most controversial events of the twentieth century. However, the controversy over the rights and wrongs of dropping the bomb has tended to obscure a number of fundamental and sobering truths about the development of this fearsome weapon. The principle of killing thousands of enemy civilians from the air was already well established by 1945 and had been practised on numerous occasions by both sides during the Second World War. Moreover, the bomb dropped on Hiroshima was conceived and built by an international community of scientists, not just by the Americans. Other nations including Japan and Germany were also developing atomic bombs in the first half of the 1940s, albeit haphazardly. Indeed, it is difficult to imagine any combatant nation foregoing the use of the bomb during the war had it been able to obtain one. The international team of scientists organized by the Americans just got there first. As this fascinating new history shows, the bomb dropped by a US pilot that hot August morning in 1945 was in many ways the world's offspring in both a technological and a moral sense. And it was the world that would have to face its consequences strategically, diplomatically, and culturally in the years ahead.

Oppenheimer's Choice Richard Mason, 2012-02-01 In 1942 J. Robert Oppenheimer accepted the leadership of the Manhattan Project at the Los Alamos Laboratory, which produced the first atomic bomb three years later. This book examines the ethics of Oppenheimer's choice to take that job and our judgment of his acceptance, leading to the larger question of the meaning of moral judgment itself. Through an analysis of Oppenheimer's choice, Richard Mason explores questions of responsibility, the justification for the pursuit of scientific curiosity, the purity of research, and many other topics of interest in scientific ethics. This unique look at one man's choice brings out the necessary step from personal detail to abstract reflection; it may be easy to praise or condemn Oppenheimer's choice, but less easy to justify our praise or condemnation. Oppenheimer's Choice establishes the possibility of this kind of moral philosophy: neither applied nor practical ethics, but instead a sustained concentration on a single choice and what it means.

At War with Words Mirjana N. Dedaic, Daniel N. Nelson, 2012-02-13 In a new era of global conflict involving non-state actors, *At War with Words* offers a provocative perspective on the role of language in the genesis, conduct, and consequence of mass violence. Sociolinguistics meets political science and communication studies in order to examine interdependence between armed conflict and language. As phenomena attributed only to humans, both armed conflict and language are visible on two axes: language as war discourse and language as a social policy subject to change by the victorious. In this unique volume, internationally known contributors provide original data and new insights that illuminate roles of text and talk in creating identities of enemies, justifications for violence, and accompanying propaganda. Incorporating contexts from around the world, this collection's topics range from a radio talk show hosts' inflammatory rhetoric to the semantic poverty of the lexicon of mass destruction. The first eight chapters discuss war texts. How does language serve as a vehicle to incite, justify, and resolve an armed conflict? Case studies from the US to China and from Austria to Ghana detail such a progression to, through, and from war. The book's second part reflects the

understanding of language as a symbol of power achieved by a victorious side in war Five chapters discuss cases from Okinawa Croatia Cyprus Palau and Northern Ireland Edited by a sociolinguist and a political scientist *At War with Words* includes chapters by Michael Billig Paul Chilton Ruth Wodak and a dozen other prominent linguists and communications scholars This book will be of interest to linguists media scholars and political scientists but is also accessible to any reader interested in language and war Teachers will find particular chapters useful as course material in discourse analysis language policy war and peace studies conflict resolution mass communication and other related disciplines

Dangerous Ground Scott Ritter, 2010-03-30 In *Dangerous Ground* Scott Ritter one of the world's leading experts on arms control tells a bold and revisionist account of the inseparable histories of the post World War II American presidency and nuclear weapons Unpacking sixty years of nuclear history Ritter shows that nuclear weapons have become such a fixture that they define present day America on economic military political and moral grounds And despite fears of global nuclear proliferation the greatest threat to international stability Ritter argues is the US's addiction to nuclear weapons Even in light of Barack Obama's historic speech in April 2009 which called for the eventual abolition of nuclear weapons America continues to guard a significant and dangerous nuclear stockpile The notion that we are more secure with nuclear weapons is deeply entrenched in the American psyche and virulently protected by forces in the US establishment As long as this paradigm persists Ritter suggests there will be no fundamental US policy change and as such no change in global nuclear proliferation

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Table of Contents The Manhattan Project A Documentary Introduction To The Atomic Age

1. Understanding the eBook The Manhattan Project A Documentary Introduction To The Atomic Age
 - The Rise of Digital Reading The Manhattan Project A Documentary Introduction To The Atomic Age
 - Advantages of eBooks Over Traditional Books
2. Identifying The Manhattan Project A Documentary Introduction To The Atomic Age
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Manhattan Project A Documentary Introduction To The Atomic Age
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Manhattan Project A Documentary Introduction To The Atomic Age
 - Personalized Recommendations
 - The Manhattan Project A Documentary Introduction To The Atomic Age User Reviews and Ratings
 - The Manhattan Project A Documentary Introduction To The Atomic Age and Bestseller Lists
5. Accessing The Manhattan Project A Documentary Introduction To The Atomic Age Free and Paid eBooks
 - The Manhattan Project A Documentary Introduction To The Atomic Age Public Domain eBooks
 - The Manhattan Project A Documentary Introduction To The Atomic Age eBook Subscription Services
 - The Manhattan Project A Documentary Introduction To The Atomic Age Budget-Friendly Options

6. Navigating The Manhattan Project A Documentary Introduction To The Atomic Age eBook Formats
 - ePub, PDF, MOBI, and More
 - The Manhattan Project A Documentary Introduction To The Atomic Age Compatibility with Devices
 - The Manhattan Project A Documentary Introduction To The Atomic Age Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Manhattan Project A Documentary Introduction To The Atomic Age
 - Highlighting and Note-Taking The Manhattan Project A Documentary Introduction To The Atomic Age
 - Interactive Elements The Manhattan Project A Documentary Introduction To The Atomic Age
8. Staying Engaged with The Manhattan Project A Documentary Introduction To The Atomic Age
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Manhattan Project A Documentary Introduction To The Atomic Age
9. Balancing eBooks and Physical Books The Manhattan Project A Documentary Introduction To The Atomic Age
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Manhattan Project A Documentary Introduction To The Atomic Age
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Manhattan Project A Documentary Introduction To The Atomic Age
 - Setting Reading Goals The Manhattan Project A Documentary Introduction To The Atomic Age
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Manhattan Project A Documentary Introduction To The Atomic Age
 - Fact-Checking eBook Content of The Manhattan Project A Documentary Introduction To The Atomic Age
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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