

# THE ~~SECRET~~ UNCLASSIFIED ~~SECRET~~ LOS ALAMOS PRIMER

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## THE FIRST LECTURES ON HOW TO BUILD AN ATOMIC BOMB

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### ROBERT SERBER

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# Los Alamos Primer

**David Kaiser**



## Los Alamos Primer:

*The Los Alamos Primer* Robert Serber, 2020 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 Los Alamos Primer** Robert Serber, In April 1943 at a new secret laboratory on a mesa in the high New Mexican desert a crowd of the most brilliant young scientists in America heard five stunning lectures that summed up everything the world knew about how to build an atomic bomb The lecturer was Robert Serber a theoretical physicist and protégé of J Robert Oppenheimer the laboratory was Los Alamos Serber's lectures assembled in note form and mimeographed became the legendary LA 1 the *Los Alamos Primer* the first document passed out to new recruits to the wartime enterprise classified Secret Limited for twenty years after the Second World War Source of description unknown Critical Assembly Lillian Hoddeson, Gordon Baym, 1993-05-28 This 1993 book explores how the critical assembly of scientists at Los Alamos created the first atomic bombs **Particle Physics: a Los Alamos Primer** Necia Grant Cooper, Geoffrey B. West, 1988 *Particle Physics* Necia Grant Cooper, Geoffrey B. West, 1988-04-29 This book explains the emergence of a profoundly new understanding of the fundamental forces of Nature Deception at Los Alamos A.L. Provost, 2006-06 At the beginning of World War II Germany and America were in a race to develop the atomic bomb The clear prize was European domination For reasons of security at the end of 1942 the Americans moved their nuclear weapons research and development program to a barren rocky New Mexico plateau called Los Alamos Suddenly Adolf Hitler realized he was going to come in second place in a race that had no second place With the Führer's back against an atomic wall in desperation he sent his top spy to New Mexico His mission To steal America's atomic bomb secrets This is the story of Gunter Fleiss **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

**The Nuclear Muse** John Canaday, 2000 Canaday a poet and playwright who has been a Watson Fellow and a Starbuck Fellow in Poetry at Boston University analyzes a variety of texts produced by physicists before during and after WWII including Niels Bohr s The Quantum Postulate the technical lectures used for training at Los Alamos scientist s descriptions of their work and of the Trinity test and Leo Szilard s postwar novella The Voice of the Dolphins He looks at physicists use of figurative language in the development of quantum theory and examines the role played by the rhetorics of exploration and religion in the construction of the Los Alamos community Includes bandw historical photos Annotation copyrighted by Book News Inc Portland OR

*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

**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

**On Nuclear Terrorism** Michael Levi, 2009-06-30 Nuclear terrorism is such a disturbing prospect that we shy away from its details Yet as a consequence we fail to understand how best to defeat it Michael Levi takes us inside nuclear terrorism and behind the decisions a terrorist leader would be faced with in pursuing a nuclear plot Along the way Levi identifies the many obstacles large and small that such a terrorist scheme might encounter allowing him to discover a host of ways that any plan might be foiled Surveying the broad universe of plots and defenses this accessible account shows how a wide ranging defense that integrates the tools of weapon and materials security law enforcement intelligence border controls diplomacy and the military can multiply intensify and compound the possibility that nuclear terrorists will fail Levi draws from our long experience with terrorism and cautions us not to focus solely on the most harrowing yet most improbable threats Nuclear terrorism shares much in common with other terrorist threats and as a result he argues defeating it is impossible unless we put our entire counterterrorism and homeland security house in order As long as we live in a nuclear age no defense can completely eliminate nuclear terrorism But this book reminds us that the right strategy can minimize the risks and shows us how to do it

*Alvarez: Adventures of a Physicist* Luis W. Alvarez, 2019-08-08 During World War II Luis W Alvarez participated in the Allies development of radar at the MIT Radiation Laboratory and of the atomic bomb at Los Alamos He

then worked as an experimental physicist on cyclotrons particle accelerators and bubble chambers at UC Berkeley with Ernest Lawrence Later in life he used cosmic rays to X ray an Egyptian pyramid developed a new theory about the extinction of the dinosaurs and won the 1968 Nobel prize in physics for his work on elementary particles In this autobiography Alvarez shares insights on the process of scientific discovery risk taking in science and how theoretical and experimental physics interact A delightful autobiography A fascinating book It should be read by everyone who is interested in science and adventure or who just wants to meet one of our most fascinating contemporaries James Trefil New York Times Book Review Beyond its self portrait Alvarez provides an exceptionally clear view of the world of science Alan Lightman Washington Post Book World This is a richly absorbing autobiography Personally as well as scientifically forthright and plainspoken Alvarez holds the reader with the story of his life as a scientist much of the time at Berkeley Calif working with such men as Robert Oppenheimer Ernest Lawrence and Enrico Fermi Publishers Weekly A gripping book It succeeds well in making the scientific experience and the excitement of discovery accessible to the general reader Richard L Garwin Physics Today A fascinating life Elena Brunet Los Angeles Times One of the best popular books on science to emerge from the laboratory in years Henry Kisor Chicago Sun Times Luis W Alvarez has an unsurpassed reputation among scientists for a lifelong record of crucial participation in important discoveries in pure and applied science In this book he performs an additional service by revealing his thought processes Philip Abelson Science Advisor American Association for the Advancement of Science

*Soviet Atomic Project, The: How The Soviet Union Obtained The Atomic Bomb* Lee G Pondrom, 2018-07-25 Political intrigue the arms race early developments of nuclear science espionage and more are all present in this gripping book The book is crisply written and well worth the read The text includes a number of translated segments of official documents plus extracts from memoirs of some of the people involved So although Pondrom sprinkles his opinions throughout there is sufficient material to permit readers to make their own judgements CERN The book describes the lives of the people who gave Stalin his weapon scientists engineers managers and prisoners during the early post war years from 1945 1953 Many anecdotes and vicissitudes of life at that time in the Soviet Union accompany considerable technical information regarding the solutions to formidable problems of nuclear weapons development The contents should interest the reader who wants to learn more about this part of the history and politics in 20th century physics The prevention of nuclear proliferation is a topic of current interest and the procedure followed by the Soviet Union as described in this book will help to understand the complexities involved

**Fallout** Jim Ottaviani, 2001 Written by Jim Ottaviani with art by various artists

**The Atomic Bomb and American Society** Rosemary B. Mariner, G. Kurt Piehler, 2009 Drawing on the latest research on the atomic bomb and its history the contributors to this provocative collection of eighteen essays set out to answer two key questions First how did the atomic bomb a product of unprecedented technological innovation rapid industrial scale manufacturing and unparalleled military deployment shape U S foreign policy the communities of workers who produced it and society as a whole And second

how has American society's perception that the bomb is a means of military deterrence in the Cold War era evolve under the influence of mass media, scientists, public intellectuals, and even the entertainment industry? In answering these questions, *The Atomic Bomb and American Society* sheds light on the collaboration of science and the military in creating the bomb, the role of women working at Los Alamos, the transformation of nuclear physicists into public intellectuals as the reality of the bomb came into widespread consciousness, the revolutionary change in military strategy following the invention of the bomb, and the development of Cold War ideology, the image of the bomb that was conveyed in the popular media, and the connection of the bomb to the commemoration of World War II. As it illuminates the cultural, social, political, environmental, and historical effects of the creation of the atomic bomb, this volume contributes to our understanding of how democratic institutions can coexist with a technology that affects everyone, even if only a few are empowered to manage it.

Rosemary B. Mariner is formerly Joint Chiefs of Staff Chair and Professor of Military Studies for the National War College. She is currently a lecturer in history at the University of Tennessee, Knoxville. G. Kurt Piehler is associate professor of history and former director of the Center for the Study of War and Society at the University of Tennessee, Knoxville, which hosted the conference that formed the basis of this volume. He is the author of *Remembering War: The American Way and World War II in the American Soldiers' Lives Series*, as well as the coeditor with John Whiteclay Chambers II of *Major Problems in American Military History*.

**The Curve of Binding Energy** John McPhee, 2011-04-01 Theodore Taylor was one of the most brilliant engineers of the nuclear age, but in his later years he became concerned with the possibility of an individual being able to construct a weapon of mass destruction on their own. McPhee tours American nuclear institutions with Taylor and shows us how close we are to terrorist attacks employing homemade nuclear weaponry.

**Critical Assembly** John Canaday, 2017-09-15 With technical mastery and remarkable empathy, Canaday introduces readers to the people involved in the creation and testing of the first atomic bomb, from initial theoretical conversations to the secretive work at Los Alamos. *Critical Assembly* also includes brief biographies, notes, and a bibliography for further exploration about this critical event in world history.

[American Prometheus](#) Kai Bird, Martin J. Sherwin, 2007-12-18 THE INSPIRATION FOR THE ACADEMY AWARD WINNING MAJOR MOTION PICTURE *OPPENHEIMER*: A riveting account of one of history's most essential and paradoxical figures, Christopher Nolan's 1993 *THE NEW YORK TIMES* BESTSELLER PULITZER PRIZE WINNER. The definitive biography of J. Robert Oppenheimer, one of the iconic figures of the twentieth century, a brilliant physicist who led the effort to build the atomic bomb for his country in a time of war and who later found himself confronting the moral consequences of scientific progress. A Kirkus Reviews Best Nonfiction Book of the Century. In this magisterial, acclaimed biography, twenty-five years in the making, Kai Bird and Martin Sherwin capture Oppenheimer's life and times, from his early career to his central role in the Cold War. This is biography and history at its finest, riveting and deeply informative. A masterful account of Oppenheimer's rise and fall, set in the context of the turbulent decades of America's own transformation. It is a tour de force. *Los Angeles Times Book Review*. A work of

voluminous scholarship and lucid insight unifying its multifaceted portrait with a keen grasp of Oppenheimer's essential nature. It succeeds in deeply fathoming his most damaging self-contradictory behavior. The New York Times      **Pedagogy and the Practice of Science** David Kaiser, 2005. Studies examining the ways in which the training of engineers and scientists shapes their research strategies and scientific identities.



## Los Alamos Primer Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Los Alamos Primer**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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