

LOS ALAMOS
and the development of the
ATOMIC BOMB



Robert W. Serber

Los Alamos and the Development of the Atomic Bomb

Los Alamos The Development Of The Atomic Bomb

Donald Lavash



Los Alamos The Development Of The Atomic Bomb:

Bulletin of the Atomic Scientists, 1970-11 *Los Alamos and the Development of the Atomic Bomb* Robert W.

Seidel, 1995 *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

Inventing Los Alamos Jon Hunner, 2014-08-04 A social history of New Mexico's Atomic City Los Alamos New Mexico birthplace of the Atomic Age is the community that revolutionized modern weaponry and science An instant city created in 1943 Los Alamos quickly grew to accommodate six thousand people scientists and experts who came to work in the top secret laboratories others drawn by jobs in support industries and the families How these people as a community faced both the fevered rush to create an atomic bomb and the intensity of the subsequent cold war era is the focus of Jon Hunner's fascinating narrative history Much has been written about scientific developments at Los Alamos but until this book little has been said about the community that fostered them Using government records and the personal accounts of early residents *Inventing Los Alamos* traces the evolution of the town during its first fifteen years as home to a national laboratory and documents the town's creation the lives of the families who lived there and the impact of this small community on the Atomic Age

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

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

Miscellaneous Minor Editions and Facsimiles, **City of Fire** James W. Kunetka, 1979 In a clandestine scientific laboratory on isolated Los Alamos Mesa in northern New Mexico the world's first three atomic bombs were created City of Fire is the dramatic account of how Los Alamos scientists raced the clock during World War II to find the answers to great unknowns and develop the bomb before the Nazis did Drawing on previously classified wartime files the records of the Manhattan Project and interviews with dozens of wartime participants James Kunetka shows the reader what it was like to live and work in Los Alamos from 1943 to 1945 Back cover

The History of Nuclear Power, Revised Edition James Mahaffey, 2020-03-01 The discovery and application of nuclear power is one of the most profound scientific accomplishments of the 20th century beginning with tentative explorations of the structure of matter expanding into a rapid succession of unexpected discoveries and finally settling into a seamless transition from theoretical science to applied engineering There were many changes to nuclear power during this century science transitioned from an academic pursuit to an industry the use of uranium changed from an occasional orange or green dye in ceramics to major power fuel and public safety concerns shifted from boiler explosions on steamboats to nuclear reactor explosions on continents Written in clear and accessible language The History of Nuclear Power Revised Edition describes the sequence of these changes as science and technology rapidly matured more than a hundred years and as the scale of civilization and its energy needs expanded Providing a fundamental introduction to this complicated subject this updated full color resource is ideal for high school and college students interested in the future through a study of the past

A History of Modern Chemistry Noboru Hirota, 2016 This publication is a translation of the book entitled Gendai Kagakushi A History of Modern Chemistry published by Kyoto University Press in 2013

A Journey Through New Mexico History (Hardcover) Donald Lavash, 2006-07 Many conditions cultures and events have played a part in the history of New Mexico The author a recognized authority guides the reader from the earliest land formations into the present time and has illustrated the narrative with photographs maps and artwork depicting various changes that took place during the many stages of New Mexico's development Donald R Lavash taught New Mexico junior and senior high school history for 13 years and at the college level for two years This book is the outgrowth of his teaching experiences and his

feeling of a strong need for a New Mexico history text Dr Lavash was also the Southwest Historian for the New Mexico State Records Center and Archives for five years He is the author of numerous articles and books on history and archeology

What Happened? An Encyclopedia of Events That Changed America Forever John E. Findling, Frank W.

Thackeray, 2010-12-09 This comprehensive and highly readable collection of essays highlights 50 important events that changed the course of American history What Happened An Encyclopedia of Events That Changed America Forever is designed to introduce beginning U S history students and lay readers to the most significant events in the nation s history More than that it also will give readers insight into why a particular event is important This book consists of 50 chapters in four volumes each dealing with a critically important event in American history from the 17th century to the present Each chapter includes a factual essay on the subject prepared by John Findling or Frank Thackeray The factual material is augmented with an interpretive essay on the same subject written by a specialist in the field Through this juxtaposition readers can learn not only about the who what and where of an event but also why it is important in the sweep of American history

The Secret History of World War II Neil Kagan, Stephen Garrison Hyslop, 2016 From spy missions to code breaking this richly illustrated account of the covert operations of World War II takes readers behind the battle lines and deep into the undercover war effort that changed the course of history From the authors who created Eyewitness to World War II and numerous other best selling illustrated reference books this is the shocking story behind the covert activity that shaped the outcome of one of the world s greatest conflicts and the destiny of millions of people National Geographic s landmark book illuminates World War II as never before by taking you inside the secret lives of spies and spy masters secret agents and secret armies Enigma machines and code breakers psychological warfare and black propaganda secret weapons and secret battle strategies Seven heavily illustrated narrative chapters reveal the truth behind the lies and deception that shaped the secret war eight essays showcase hundreds of rare photos and artifacts many never before seen more than 50 specially created sidebars tell the stories of spies and secret operations Renowned historian and top selling author Stephen Hyslop reveals this little known side of the war in captivating detail weaving in extraordinary eyewitness accounts and information only recently declassified Rare photographs artifacts and illuminating graphics enrich this absorbing reference book

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

History of Solid State Physics Joginder Singh Galsin, *Radioactivity: Introduction*

and History Michael F. L'Annunziata, 2007-08-23 *Radioactivity Introduction and History* provides an introduction to radioactivity from natural and artificial sources on earth and radiation of cosmic origins This book answers many questions for the student teacher and practitioner as to the origins properties detection and measurement and applications of radioactivity Written at a level that most students and teachers can appreciate it includes many calculations that students and teachers may use in class work *Radioactivity Introduction and History* also serves as a refresher for experienced practitioners who use radioactive sources in his or her field of work Also included are historical accounts of the lives and major achievements of many famous pioneers and Nobel Laureates who have contributed to our knowledge of the science of radioactivity Provides entry level overview of every form of radioactivity including natural and artificial sources and radiation of cosmic origin Includes many solved problems to practical questions concerning nuclear radiation and its interaction with matter Historical accounts of the major achievements of pioneers and Nobel Laureates who have contributed to our current knowledge of radioactivity

The War Against Japan, 1941-1945 John J. Sbrega, 2015-06-12 With over 5 200 entries this volume remains one of the most extensive annotated bibliographies on the USA's fight against Japan in the Second World War Including books articles and declassified documents up to the end of 1987 the book is organized into six categories Part 1 presents reference works including encyclopedias pictorial accounts military histories East Asian histories historiographies Part 2 covers diplomatic political aspects of the war against Japan Part 3 contains sources on the economic and legal aspects of the war against Japan Part 4 presents sources on the military aspects of the war embracing land air and sea forces Religious aspects of the war are covered in Part 5 and Part 6 deals with the social and cultural aspects including substantial sections on the treatment of Japanese minorities in the USA Hawaii Canada and Peru

In the Matter of J. Robert Oppenheimer Richard Polenberg, 2018-08-06 At the end of World War II J Robert Oppenheimer was one of America's preeminent physicists For his work as director of the Manhattan Project he was awarded the Medal for Merit the highest honor the U S government can bestow on a civilian Yet in 1953 Oppenheimer was denied security clearance amidst allegations that he was more probably than not an agent of the Soviet Union Determined to clear his name he insisted on a hearing before the Atomic Energy Commission's Personnel Security Board *In the Matter of J Robert Oppenheimer* contains an edited and annotated transcript of the 1954 hearing as well as the various reports resulting from it Drawing on recently declassified FBI files Richard Polenberg's introductory and concluding essays situate the hearing in the Cold War period and his thoughtful analysis helps explain why the hearing was held why it turned out as it did and what that result meant both for Oppenheimer and for the United States Among the forty witnesses who testified were many who had played vitally important roles in the making of U S nuclear policy Enrico Fermi Hans Bethe Edward Teller Vannevar Bush George F Kennan and Oppenheimer himself The hearing provides valuable insights into the development of the atomic bomb and the postwar debate among scientists over the hydrogen bomb the conflict between the foreign policy and military establishments over

national defense and the controversy over the proper standards to apply in assessing an individual's loyalty. It reveals as well the fears and anxieties that plagued America during the Cold War era. **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. Super-History Jeffrey K. Johnson, 2014-01-10 In the less than eight decades since Superman's debut in 1938, comic book superheroes have become an indispensable part of American society and the nation's dominant mythology. They represent America's hopes, dreams, fears, and needs. As a form of popular literature, superhero narratives have closely mirrored trends and events in the nation. This study views American history from 1938 to 2010 through the lens of superhero comics, revealing the spandex-clad guardians to be not only fictional characters but barometers of the place and time in which they reside. Instructors considering this book for use in a course may request an examination copy [here](#).

Reviewing **Los Alamos The Development Of The Atomic Bomb**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Los Alamos The Development Of The Atomic Bomb**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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