

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

Lillian Hoddeson, Gordon Baym



Los Alamos The Development Of The Atomic Bomb:

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

Los Alamos and the Development of the Atomic Bomb Robert W. Seidel, 1995 **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 **Bulletin of the Atomic Scientists**, 1970-11 *Miscellaneous Minor Editions and Facsimiles*, **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

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

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

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

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 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 Nobel Laureates of Los Alamos Los Alamos National Laboratory, 2025-08-19 Established as a top secret site for development of the atomic bomb as part of World War II's Manhattan Project Los Alamos National Laboratory in New Mexico has from its very beginnings hosted some of the world's most brilliant scientists Many of them were recipients of the internationally famous award for scientific accomplishment the Nobel Prize In Nobel Laureates of Los Alamos The Manhattan Project Era editors Rizwan Ali who directs the National Security Research Center at Los Alamos and Brye Ann Steeves have with the assistance of a talented team of writers and designers assembled portraits of the visionary researchers whose names are indelibly engraved in the popular imagination Enrico Fermi Richard Feynman Maria Goeppert Mayer and others But these are not merely sketches of great intellects Among the Nobel laureates profiled here we also find a sly practical joker an avid fly fisherman an inward focused beachcomber a spontaneous comedian and a gifted singer along with the Lab's wartime leader J Robert Oppenheimer who was never a Nobel Prize recipient himself During the early years at Los Alamos under the shroud of secrecy imposed by the dictates of the Manhattan Project these scientists lived labored debated explored the limits of human knowledge and collectively laid the foundation for not only the development of the nuclear age but of vast swaths of science and technology during the twentieth century Offered in a lively visually rich and easy to read presentation this book provides a three dimensional recollection of some of the most important scientific pioneers of the modern age *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

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 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

500+ All-American Family Adventures Debbie K. Hardin, 2013-06-04 A state by state guide to the places that offer a unique insight into American culture 500 All American Family Adventures is a thoughtful handbook that will help you plan family vacations and day trips that are both entertaining and educational Travel is one of the best ways to augment a child's formal education and this volume offers insightful suggestions for making the most of any trip all the while making it so much fun that your kids won't even know they're learning This voluminous collection carefully researched includes places your family will never forget the most important historical sites in the country are here as well as gems travelers might otherwise miss The common thread is that each gives real insight into the American experience and also packs a powerful engaging experience on its own Also provided budgeting tips time saving strategies historical background and an appendix of the best family friendly lodging options

New Mexico Calvin A. Roberts, Susan A. Roberts, 2006-04-16 New Mexico is a single volume presentation of the fascinating succession of

events and characters that make up the state's past

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

Radioactivity Michael F. L'Annunziata, 2022-10-02 *Radioactivity* History Science Vital Uses and Ominous Peril Third Edition provides an introduction to radioactivity the building blocks of matter the fundamental forces in nature and the role of quarks and force carrier particles This new edition adds material on the dichotomy between the peaceful applications of radioactivity and the threat to the continued existence of human life from the potential use of more powerful and sophisticated nuclear weapons The book includes a current review of studies on the probability of nuclear war and treaties nonproliferation and disarmament along with historical insights into the achievements of over 100 pioneers and Nobel Laureates Through multiple worked examples the book answers many questions for the student teacher and practitioner as to the origins properties and practical applications of radioactivity in fields such as medicine biological and environmental research industry safe nuclear power free of greenhouse gases and nuclear fusion Ratings and Reviews of Previous Editions CHOICE Magazine July 2008 This work provides an overview of the many interesting aspects of the science of radioactive decays including in depth chapters that offer reminiscences on the history and important personalities of the field This book can be useful as supplemental reading or as a reference when developing course material for nuclear physics nuclear engineering or health physics lectures Special attention has been given to a chapter on the role radioactivity plays in everyday life applications Generally the book is well produced and will be a valuable resource Many lectures can be lightened up by including material from this work Summing up RECOMMENDED Upper division undergraduates through professionals technical program students U Greife Colorado School of Mines USA I found the biographical accounts of the various stalwarts of Physics inspirational Most of them if not all had to overcome economic hardships or personal tragedies or had to do their groundbreaking work in the face of tyranny and war The biographies also highlighted the high standards of moral

convictions that the scientists had as they realized the grave implications of some of their work and the potential threats to humanity This ought to inspire and motivate young men and women aspiring to be physicists Even people who have been in the field for a while should find your book re energizing It certainly had that effect on me Dr Ramkumar Venkataraman Canberra Industries Inc Meriden CT USA Winner of an Honorable Mention in the 2017 PROSE Awards in the category of Chemistry and Physics <https://proseawards.com/winners/2017-award-winners/> Includes new content that explains the vital benefits that nuclear technology provides and the need to be aware and involved in worldwide efforts toward the reduction of nuclear weapon stockpiles and the elimination of the threat of nuclear weapons Provides context and insights on key research over the past three centuries placing radioactivity in real world contexts Supports learning via multiple solved problems that answer practical questions concerning nuclear decay nuclear radiation and the interaction of nuclear radiation with matter

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