



Los Alamos The Development Of The Atomic Bomb

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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

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