

The Manhattan Project

A Documentary Introduction
to the Atomic Age

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The Manhattan Project Michael B. Stoff, Jonathan F. Fanton, Richard Hal Williams, 1991 **The Manhattan Project** Michael B. Stoff, Jonathan F. Fanton, 1991 **Manhattan Project**, 2000 The scientists and engineers who helped build the world's first nuclear weapon reflect on their accomplishments and legacy **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 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 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 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

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

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