

The History Of The Atomic Bomb

Anthony Cave Brown, Charles Brown MacDonald, Charles B. MacDonald

The History Of The Atomic Bomb:

The Secret History of the Atomic Bomb Anthony Cave Brown, Charles Brown MacDonald, Charles B. MacDonald, 1977 The Making of the Atomic Bomb Richard Rhodes, 2012-06-12 Winner of the Pulitzer Prize the National Book Award and the National Book Critics Circle Award The definitive history of nuclear weapons from the turn of the century discovery of nuclear energy to J Robert Oppenheimer and the Manhattan Project this epic work details the science the people and the sociopolitical realities that led to the development of the atomic bomb This sweeping account begins in the 19th century with the discovery of nuclear fission and continues to World War Two and the Americans race to beat Hitler's Nazis That competition launched the Manhattan Project and the nearly overnight construction of a vast military industrial complex that culminated in the fateful dropping of the first bombs on Hiroshima and Nagasaki Reading like a character driven suspense novel the book introduces the players in this saga of physics politics and human psychology from FDR and Einstein to the visionary scientists who pioneered quantum theory and the application of thermonuclear fission including Planck Szilard Bohr Oppenheimer Fermi Teller Meitner von Neumann and Lawrence From nuclear power s earliest foreshadowing in the work of H G Wells to the bright glare of Trinity at Alamogordo and the arms race of the Cold War this dread invention forever changed the course of human history and The Making of The Atomic Bomb provides a panoramic backdrop for that story Richard Rhodes s ability to craft compelling biographical portraits is matched only by his rigorous scholarship Told in rich human political and scientific detail that any reader can follow The Making of the Atomic Bomb is a thought provoking and masterful work The History of Nuclear War I John Richard Shanebrook, 2013-10-24 In August of 1945 some 200 000 people died at Hiroshima and Nagasaki from two nuclear weapon explosions during Nuclear War I This book details the following historical events that led to Nuclear War I Fermi and Szilard worked on nuclear fission at Columbia University in 1939 Plutonium 239 was discovered in 1940 Einstein informed President Roosevelt of possible German uranium bombs Fermi built the world's first nuclear reactor in 1942 to manufacture plutonium General Groves and Oppenheimer led the U S effort to build atomic bombs as part of the Manhattan Project Soviet spies infiltrated the Manhattan Project The Trinity Test on July 16 1945 was the world's first nuclear explosion. The Pope 1943 and many scientists spoke against the use of nuclear weapons Truman became President on April 12 1945 and first learned of the Manhattan Project The B 29 bomber was selected to deliver atomic bombs to Japan On August 6 1945 an atomic bomb uranium was exploded over the Japanese city of Hiroshima For three days August 6th to the 9th hope abounded that Japan would surrender but preparations for more nuclear war continued On August 9 1945 an atomic bomb plutonium was exploded over the Japanese city of Nagasaki Emperor Hirohito survived a coup by angry military officers and Japan surrendered on August 14 1945 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 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 History of American Foreign Policy from 1895 Jerald A. Combs, 2015-02-12 This important text offers a clear concise and affordable narrative and analytical history of American foreign policy since the Spanish American War The book narrates events and policies but goes further to emphasize the international setting and constraints within which American policy makers had to operate the domestic pressures on those policy makers and the ideologies preferences and personal idiosyncrasies of the leaders themselves The Atomic Bombings of Hiroshima and Nagasaki United States. Army. Corps of Engineers. Manhattan District, 2023-10-01 Experience the harrowing reality of wartime devastation with The Atomic Bombings of Hiroshima and Nagasaki a detailed and sobering account by the United States Army Corps of Engineers Manhattan District Discover the profound impact of these events on history and humanity In The Atomic Bombings of Hiroshima and Nagasaki readers are presented with a meticulous and comprehensive report on the bombings that brought World War II to a close This document provides an in depth look at the technical military and human aspects of the bombings offering a clear and factual narrative of one of the most significant events in modern history. The book explores themes of technological advancement the ethics of warfare and the human cost of conflict Through detailed descriptions and firsthand accounts it illuminates the immediate and long term effects of the bombings on the cities and their inhabitants highlighting the profound consequences of nuclear warfare The tone of The Atomic Bombings of Hiroshima and Nagasaki is both factual and reflective combining technical precision with a deep awareness of the moral and humanitarian implications The document serves as both a historical record and a cautionary tale about the destructive power of nuclear weapons Since its publication The Atomic Bombings of Hiroshima and Nagasaki has been recognized as a crucial resource for understanding the impact of nuclear warfare Its detailed analysis and comprehensive coverage make it an essential read for historians students and anyone interested in the history of World War II and nuclear science As you delve into The Atomic Bombings of Hiroshima and Nagasaki you ll gain a deeper understanding of the events that reshaped the course of history and the ongoing implications for global peace and security This document s detailed and unbiased approach offers valuable insights into the complexities of wartime decision making and its aftermath In conclusion The Atomic Bombings of Hiroshima and Nagasaki is more than just a historical report it s a vital reminder of the devastating consequences of war and the importance of striving for peace Whether you re a history enthusiast a student or a concerned global citizen this book provides essential knowledge and reflection on a pivotal moment in history Don t miss your opportunity to explore the detailed account of one of history s most significant events Let The Atomic Bombings of Hiroshima and Nagasaki deepen your understanding of the past and inform your perspective on the future Grab your copy now and engage with this critical History of Science in United States Marc Rothenberg, 2012-10-12 This Encyclopedia examines all historical document aspects of the history of science in the United States with a special emphasis placed on the historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine The Atomic Bomb: A History Just For Kids! KidCaps, 2013-09-05 Now from time to time you might hear the term nuclear bomb used while other times you may hear the term atomic bomb What is the difference Any bomb that uses tiny reactions inside the nucleus of a microscopic atom is by definition a nuclear bomb However the first nuclear bombs were much simpler than today s bombs which use multiple steps to produce their large explosions The first nuclear bombs that were produced relied only on this special microscopic reaction in the atom and so are called atomic bombs and it is this kind that we will be talking about Find out about this exciting and **Secret History of the Atomic Bomb** Anthony Cave Brown, Charles complex period of time in this kid s book MacDonald, 1986-07-01 Hiroshima in History and Memory Michael J. 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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 The Cambridge History of the Cold War Melvyn P. Leffler, Odd Arne Westad, 2010-03-25 behind the Manhattan project This volume examines the origins and early years of the Cold War in the first comprehensive historical reexamination of the period A team of leading scholars shows how the conflict evolved from the geopolitical ideological economic and sociopolitical environments of the two world wars and interwar period Atomic J. E. Baggott, 2009 Atomic is the first fully realised popular account of the race to build humankind s most destructive weapon The book draws on declassified material such as MI6 s FarmHall transcripts coded Soviet messages cracked by American cryptographers in the Venona project and interpretations by Russian scholars of documents from the Soviet archives Manhattan Project Cynthia C. Kelly, 2009-02-10 The definitive collection of writings on the Manhattan Project by the pre eminent scientists historians and the everyday observers who bore witness to the birth of the modern nuclear age Begun in 1939 the Manhattan Project eventually employed more than 130 000 people including our foremost scientists and thinkers and cost nearly 2 billion while operating under a shroud of absolute secrecy This groundbreaking collection of documents essays articles and excerpts from histories biographies plays novels letters and the oral histories of key eyewitnesses provides unique perspectives for the historian and student of history all compiled by experts at the Atomic Heritage Foundation Photographs throughout depict key moments and pivotal figures The Manhattan Project gives actual voice to a significant period in history in Asia and the Pacific and the War's Aftermath, with General Themes Loyd Lee, 1998-10-23 A companion to World War II in Europe Africa and the Americas this volume reevaluates the most enduring literature on basic aspects of the war in Asia and the Pacific It also covers themes pertaining to societies at war culture the arts and science and technology as well as international relations and the postwar world Included are not only grand strategy military and naval campaigns and matters of diplomacy but also resistance collaboration prisoners of war and broad topics of the home front including chapters on gender issues film literature popular culture and propaganda This volume and its companion provide the first comprehensive historiographic reference work on the war Each chapter describes the state of knowledge on the topic relating each

bibliographic reference to the chapter's themes and issues and concludes with a bibliography Recent original scholarship is included when it aids new understanding and older works of enduring value also find a place The essays in this volume will interest scholars and college teachers as well as advanced students and serious amateurs seeking insight into the history of the war and its literature **The Last European War** John Lukacs,2001-01-01 This absorbing study of the first phase of World War II tells not only how events happened but why Eminent historian Lukacs presents an extraordinary narrative of these two years followed by a detailed sequential analysis of the political military and intellectual relations and events

Origins of the Cold War Melvyn P. Leffler,2005 This second edition brings the collection up to date including the newest research from the Communist side of the Cold War and the most recent debates on culture race and intelligence

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