

Access Free  
Building The H  
Bomb

# ***Building The H Bomb***

Traces the development of the atomic bomb from Leo Szilard's concept through the drama of the race to build a workable device to the dropping

# Access Free Building The H Bomb

of the bomb on  
Hiroshima  
The classic and  
“utterly  
engrossing”  
study of  
Stalin’s pursuit  
of a nuclear  
bomb during the  
Cold War by the  
renowned  
political  
scientist and  
historian

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(Foreign Affairs). For forty years the U.S.-Russian nuclear arms race dominated world politics, yet the Soviet nuclear establishment was shrouded in secrecy. Then, shortly after the collapse of

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the Soviet Union, David Holloway pulled back the Iron Curtain with his “marvelous, groundbreaking study” Stalin and the Bomb (The New Yorker). How did the Soviet Union build its atomic and hydrogen

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bombs? What role did espionage play? How did the American atomic monopoly affect Stalin's foreign policy? What was the relationship between Soviet nuclear scientists and the country's political

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leaders? David Holloway answers these questions by tracing the dramatic story of Soviet nuclear policy from developments in physics in the 1920s to the testing of the hydrogen bomb and the

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emergence of  
nuclear  
deterrence in  
the mid-1950s.  
This magisterial  
history throws  
light on Soviet  
policy at the  
height of the  
Cold War,  
illuminates a  
central element  
of the Stalinist  
system, and puts

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into perspective  
the tragic  
legacy of this p  
rogram?environme  
ntal damage, a  
vast network of  
institutes and  
factories, and a  
huge stockpile  
of unwanted  
weapons.

A field-tested  
guide to  
surviving a



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nuclear attack,  
written by a  
revered civil  
defense expert.  
This edition of  
Cresson H.  
Kearny's iconic  
Nuclear War  
Survival Skills  
(originally  
published in  
1979), updated  
by Kearny  
himself in 1987

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and again in  
2001, offers  
expert advice  
for ensuring  
your family's  
safety should  
the worst come  
to pass. Chock-  
full of  
practical  
instructions and  
preventative  
measures,  
Nuclear War

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Survival Skills  
is based on  
years of  
meticulous  
scientific  
research  
conducted by Oak  
Ridge National  
Laboratory.  
Featuring a new  
introduction by  
ex-Navy SEAL Don  
Mann, this book  
also includes:

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instructions for  
six different  
fallout  
shelters, myths  
and facts about  
the dangers of  
nuclear weapons,  
tips for  
maintaining an  
adequate food  
and water  
supply, a  
foreword by "the  
father of the

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hydrogen bomb,”  
physicist Dr.  
Edward Teller,  
and an “About  
the Author” note  
by Eugene P.  
Wigner,  
physicist and  
Nobel Laureate.  
Written at a  
time when global  
tensions were at  
their peak,  
Nuclear War

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Survival Skills  
remains relevant  
in the dangerous  
age in which we  
now live.

This is a  
political  
history of  
nuclear weapons  
from the  
discovery of  
fission in 1938  
to the nuclear  
train wreck that

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seems to loom in our future. It is an account of where those weapons came from, how the technology surprisingly and covertly spread, and who is likely to acquire those weapons next and most importantly

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why. The authors' examination of post Cold War national and geopolitical issues regarding nuclear proliferation and the effects of Chinese sponsorship of the Pakistani program is eye



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opening. The reckless “nuclear weapons programs for sale” exporting of technology by Pakistan is truly chilling, as is the on-again off-again North Korean nuclear weapons program.

How nuclear

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physics became a  
global  
geopolitical  
game-changer  
Stalin and the  
Bomb  
100 Suns  
The Ruin of J.  
Robert  
Oppenheimer  
City of a  
Thousand Gates  
A Political  
History of the

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Bomb and Its  
Proliferation  
109 East Palace  
*“The novel  
showcases the  
humanity,  
tragedy, and  
complexity of  
life in the West  
Bank. . . . The  
characters’  
interwoven lives  
will stay with  
you long after*

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*the book's  
denouement.”  
—Entertainment  
Weekly “Sacks is  
an  
extraordinarily  
gifted writer  
whose  
intelligence,  
compassion and  
skill on both  
the sentence and  
tension level  
rise to meet her*

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*ambition. She  
keeps us  
constantly on  
edge. . . . City  
of a Thousand  
Gates makes a  
convincing case  
for a literature  
of multiplicity,  
polyphonic and  
clamorous, abuzz  
with challenges  
and  
contradictions,*

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*with no clear answers but a promise to stay alert to the world, in all its peril and vitality.”*

*—Washington Post  
Brave and bold, this gorgeously written novel introduces a large cast of characters from*

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*various  
backgrounds in a  
setting where  
violence is  
routine and  
where survival  
is defined by  
boundaries,  
walls, and  
checkpoints that  
force people to  
live and love  
within and  
across them.*

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*Hamid, a college student, has entered Israeli territory illegally for work. Rushing past soldiers, he bumps into Vera, a German journalist headed to Jerusalem to cover the story of Salem, a*



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*Palestinian boy  
beaten into a  
coma by a group  
of revenge-  
seeking Israeli  
teenagers. On  
her way to the  
hospital, Vera  
runs in front of  
a car that  
barely avoids  
hitting her. The  
driver is Ido, a  
new father*

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*traveling with his American wife and their baby. Ido is distracted by thoughts of a young Jewish girl murdered by a terrorist who infiltrated her settlement. Ori, a nineteen-year-old soldier from a nearby*

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*settlement, is  
guarding the  
checkpoint  
between  
Bethlehem and  
Jerusalem  
through which  
Samar-Hamid's  
professor-must  
pass. These  
multiple strands  
open this  
magnificent and  
haunting novel*

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*of present-day  
Israel and  
Palestine,  
following each  
of these diverse  
characters as  
they try to  
protect what  
they love. Their  
interwoven  
stories reveal  
complicated,  
painful truths  
about life in*

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*this conflicted  
land steeped in  
hope, love,  
hatred, terror,  
and blood on  
both sides. City  
of a Thousand  
Gates  
brilliantly  
evokes the  
universal drives  
that motivate  
these  
individuals to*

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*think and act as they do—desires for security, for freedom, for dignity, for the future of one's children, for land that each of us, no matter who or where we are, recognize and share.*

*Outlines what it takes to make*

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*chemical,  
biological, and  
nuclear weapons;  
suggests who  
might be able to  
produce and use  
such weapons;  
and examines how  
effective  
countermeasures  
might be.*

*First published  
in 1976, The  
Advisors is an*

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*absorbing look  
at the  
technical,  
strategic, and  
human aspects of  
the great debate  
that led to the  
decision to  
build the first  
hydrogen bomb,  
Based on the  
author's own  
participation in  
Project*



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*Superbomb, on  
interviews with  
other  
participants,  
and on  
declassified  
documents, this  
book explains  
the complete  
background to  
this major  
acceleration of  
the nuclear arms  
race. For this*

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*reissue, the author has written a new Preface and Epilogue. The reissue also includes a recently declassified essay by Hans A. Bethe discussing the history of the H-bomb project from his*

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unique vantage  
point as  
Director of the  
Theoretical  
Division at Los  
Alamos. He has  
revised the  
essay  
specifically for  
inclusion in  
this book.  
In a classic  
work of  
alternate

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*history, the United States is divided up and ruled by the Axis powers after the defeat of the Allies during World War II. Reissue.*

*Winner of the Hugo Award for Best Novel.*

*Nuclear War  
Survival Skills*

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*Japan's Secret  
War*

*Nuking the Moon  
Dark Sun*

*Making the  
Atomic Bomb*

*The Making Of  
The Hydrogen  
Bomb*

*The Nuclear  
Express*

**IN THE NEWS**

**Podcast — Building**

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the H Bomb: A  
Personal History  
Hosted by Milt  
Rosenberg (1590  
WCGO), 25 June  
2015 Building the H-  
Bomb: The Big Idea  
APS News, June  
2015 (Volume 24,  
Number 6) Behind  
the Making of a  
Super Bomb The

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Washington Post, 22  
May 2015 Hydrogen  
Bomb Physicist's  
Book Runs Afoul of  
Energy Department  
The New York  
Times, 23 March  
2015 More In this  
engaging scientific  
memoir, Kenneth  
Ford recounts the  
time when, in his

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mid-twenties, he was a member of the team that designed and built the first hydrogen bomb. He worked with — and relaxed with — scientific giants of that time such as Edward Teller, Enrico Fermi, Stan Ulam, John von



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Neumann, and John Wheeler, and here offers illuminating insights into the personalities, the strengths, and the quirks of these men. Well known for his ability to explain physics to nonspecialists, Ford also brings to life the

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physics of fission  
and fusion and  
provides a brief  
history of nuclear  
science from the  
discovery of  
radioactivity in 1896  
to the ten-megaton  
explosion of “Mike”  
that obliterated a  
Pacific Island in  
1952. Ford worked

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at both Los Alamos  
and Princeton's  
Project Matterhorn,  
and brings out  
Matterhorn's major,  
but previously  
unheralded  
contribution to the  
development of the  
H bomb. Outside the  
lab, he drove a  
battered Chevrolet

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around New Mexico,  
a bantam motorcycle  
across the country,  
and a British  
roadster around New  
Jersey. Part of the  
charm of Ford's  
book is the way in  
which he leavens his  
well-researched  
descriptions of the  
scientific work with

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brief tales of his life  
away from weapons.

Contents: The Big  
Idea The

Protagonists The  
Choice The

Scientists, the  
Officials, and the  
President Nuclear

Energy Some  
Physics Going

West A New

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WorldThe Classical  
SuperCalculating  
and  
TestingConstructing  
MatterhornAcademi  
a CowersNew  
Mexico, New York,  
and New JerseyThe  
Garwin  
DesignClimbing  
MatterhornMore  
Than a Boy

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Readership: A memoir for general readership in the history of science.

Key Features:It contains real physics, clearly presented for non-specialistsCombining historical scholarship and his own recollections,

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the author offers  
important insights  
into the people and  
the work that led to  
the first H

bombPersonal  
anecdotes enliven  
the bookKeywords:

Nuclear

Weapons;Atomic

Weapons;H Bomb;T

hermonuclear



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Weapons;Nuclear  
Physics;Nuclear Hist  
ory;Thermonuclear  
History;Los  
Alamos;Edward  
Teller;Stanislav  
Ulam;John  
Wheeler;Project  
MatterhornReviews:  
“It was a great treat  
to read a book that's  
well-written,

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informative, and gets the science right. It is these personal recollections and descriptions; the fact that it is a personal and first-hand account of a unique time in history and a remarkable scientific and technical achievement that

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made this book so  
enthralling. This is  
an engaging account  
of a young scientist  
involved in a  
remarkable project.”

P Andrew Karam  
The Ohio State  
University “Ford's  
book is a valuable  
resource for anyone  
interested in the

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history of the H bomb and its role in the Cold War, and in how that work affected the life and career of an individual involved.” Physics Today "Personal memories are the book's greatest strength. Ford

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doesn't glorify, or apologize for, his work on the H-bomb. He simply tells it as it was. As a result, this is an engagingly human glimpse into the world of physics in the US in the early 1950s." Physics World

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A Pulitzer Prize-winning historian presents a comparative analysis of September 11 and the subsequent War on Terror with Pearl Harbor and World War II, addressing institutional failures of intelligence and imagination and the

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driving forces  
behind Pan-Asian  
and Pan-Islam  
movements. Reprint.

A National Book  
Award Finalist.

Building the H  
Bomb A Personal  
History World  
Scientific

In August 1945, two  
US Army Air Force

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B-29 bombers each dropped single “atomic bombs” on the Japanese cities of Hiroshima and Nagasaki. Little Boy and Fat Man each exploded with energies equivalent to more than 10,000 tons of conventional explosive. Just seven



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years later, in October 1952, the Ivy Mike test saw the detonation of America's first full-scale thermonuclear weapon that achieved a yield over 400 times as much as Little Boy and Fat Man. The invention of nuclear

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weapons was one of the most stunning scientific and technological developments of the 20th century.

Carried out under the auspices of the United States Army's Manhattan Project, this development had

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profound immediate  
and long-term  
impacts: the  
bombings of  
Hiroshima and  
Nagasaki helped  
bring World War II  
to a close, but set the  
stage for the Cold  
War, nuclear  
proliferation, and  
fear of nuclear

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annihilation and terrorism. 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

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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,

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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

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Mexico in July 1945,  
and the bombings of  
Hiroshima and  
Nagasaki. The final  
chapter surveys  
current worldwide  
nuclear weapons  
deployments, and a  
bibliography lists  
sources of published  
and online  
information along

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with numerous links.

Grappling with the  
Bomb

From Crossbow to H-  
bomb

Churchill's Bomb

Oppenheimer,

Teller, and the

Superbomb

Britain and the H-

Bomb

A Personal History



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A Novel

***Draws from  
previously  
classified  
documents,  
unpublished  
manuscripts,  
private  
correspondence,  
and other sources  
to chronicle the  
events that  
surrounded the  
revocation of***

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**scientist J. Robert  
Oppenheimer's  
security clearance  
in 1954, discussing  
the roles of  
physicist Edward  
Teller, Republican  
businessman Lewis  
Strauss,  
congressional  
assistant William  
Borden, and  
President  
Eisenhower.--**

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***Grappling with the Bomb is a history of Britain's 1950s program to test the hydrogen bomb, code name Operation Grapple. In 1957-58, nine atmospheric nuclear tests were held at Malden Island and Christmas Island--today, part***

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**of the Pacific  
nation of Kiribati.  
Nearly 14,000  
troops travelled to  
the central Pacific  
for the UK nuclear  
testing  
program--many are  
still living with the  
health and  
environmental  
consequences.  
Based on archival  
research and**

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**interviews with  
nuclear survivors,  
Grappling with the  
Bomb presents i-  
Kiribati woman Sui  
Kiritome, British  
pacifist Harold  
Steele,  
businessman  
James Burns, Fijian  
sailor Paul Ah Poy,  
English volunteers  
Mary and Billie  
Burgess and many**

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***other witnesses to  
Britain's nuclear  
folly.***

***Do persons  
exposed to  
radiation suffer  
genetic effects  
that threaten their  
yet-to-be-born  
children?***

***Researchers are  
concluding that  
the genetic risks of  
radiation are less***

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***than previously thought. This finding is explored in this volume about the children of atomic bomb survivors in Hiroshima and Nagasaki--the population that can provide the greatest insight into this critical issue. Assembled***

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***here for the first time are papers representing more than 40 years of research. These documents reveal key results related to radiation's effects on pregnancy termination, sex ratio, congenital defects, and early mortality of***



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**children. Edited by two of the principal architects of the studies, J. V. Neel and W. J. Schull, the volume also offers an important comparison with studies of the genetic effects of radiation on mice. The wealth of technical details**

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***will be  
immediately useful  
to geneticists and  
other specialists.  
Policymakers will  
be interested in  
the overall  
conclusions and  
discussion of  
future studies.  
This book  
discusses the  
decision to use the  
atomic bomb.***

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***Libraries and  
scholars will find it  
a necessary  
adjunct to their  
other studies by  
Pulitzer-Prize  
author Herbert  
Feis on World War  
II. Originally  
published in 1966.  
The Princeton  
Legacy Library  
uses the latest  
print-on-demand***

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**technology to  
again make  
available  
previously out-of-  
print books from  
the distinguished  
backlist of  
Princeton  
University Press.  
These editions  
preserve the  
original texts of  
these important  
books while**

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***presenting them in  
durable paperback  
and hardcover  
editions. The goal  
of the Princeton  
Legacy Library is  
to vastly increase  
access to the rich  
scholarly heritage  
found in the  
thousands of  
books published by  
Princeton  
University Press***

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**since its founding  
in 1905.**

**And Other  
Weapons of Mass  
Destruction**

**The Man in the  
High Castle**

**Cultures of War:**

**Pearl Harbor /**

**Hiroshima / 9-11 /**

**Iraq**

**The Manhattan**

**Project**

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***The Untold Story of  
the Women Who  
Helped Win World  
War II***

***Edward Teller***

The history of  
Pakistan's nuclear  
program is the history  
of Pakistan. Fascinated  
with the new nuclear  
science, the young  
nation's leaders  
launched a nuclear

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energy program in 1956 and consciously interwove nuclear developments into the broader narrative of Pakistani nationalism. Then, impelled first by the 1965 and 1971 India-Pakistan Wars, and more urgently by India's first nuclear weapon test in 1974, Pakistani senior



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officials tapped into the country's pool of young nuclear scientists and engineers and molded them into a motivated cadre committed to building the 'ultimate weapon.'

The tenacity of this group and the central place of its mission in Pakistan's national identity allowed the

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program to outlast the perennial political crises of the next 20 years, culminating in the test of a nuclear device in 1998. Written by a 30-year professional in the Pakistani Army who played a senior role formulating and advocating Pakistan's security policy on

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nuclear and conventional arms control, this book tells the compelling story of how and why Pakistan's government, scientists, and military, persevered in the face of a wide array of obstacles to acquire nuclear weapons. It lays out the conditions that sparked the shift from a

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peaceful quest to acquire nuclear energy into a full-fledged weapons program, details how the nuclear program was organized, reveals the role played by outside powers in nuclear decisions, and explains how Pakistani scientists overcome the many technical hurdles they

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encountered. Thanks to General Khan's unique insider perspective, it unveils and unravels the fascinating and turbulent interplay of personalities and organizations that took place and reveals how international opposition to the program only made it

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an even more significant issue of national resolve. Listen to a podcast of a related presentation by Feroz Khan at the Stanford Center for International Security and Cooperation. In December of 1938, a chemist in a German laboratory made a shocking discovery:

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When placed next to radioactive material, a Uranium atom split in two. That simple discovery launched a scientific race that spanned 3 continents. In Great Britain and the United States, Soviet spies worked their way into the scientific community; in Norway, a commando

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force slipped behind enemy lines to attack German heavy-water manufacturing; and deep in the desert, one brilliant group of scientists was hidden away at a remote site at Los Alamos. This is the story of the plotting, the risk-taking, the deceit, and genius that created the world's



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most formidable  
weapon. This is the  
story of the atomic  
bomb. Bomb is a 2012  
National Book Awards  
finalist for Young  
People's Literature.  
Bomb is a 2012  
Washington Post Best  
Kids Books of the Year  
title. Bomb is a 2013  
Newbery Honor book.  
A biography of the

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Hungarian-born Jewish physicist whose work in developing the atomic and hydrogen bombs, as well as the weapons system known as the Strategic Defense Initiative.

Looks at the contributions of the thousands of women who worked at a secret uranium-enriching

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facility in Oak Ridge,  
Tennessee during  
World War II.  
The Secret that  
Exploded  
The World Set Free  
Lifesaving Nuclear  
Facts and Self-Help  
Instructions  
The Girls of Atomic  
City  
A Genetic Study  
And Other Intelligence

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Schemes and Military  
Plots Left on the  
Drawing Board  
Edward Teller, the Real  
Dr. Strangelove

*"... offers the  
quickest way I  
know to acquire  
the basic  
historical  
background that  
we ought all to  
have." -Louis J.*

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*Halle, Survival  
This classic in  
the field of  
military history  
covers weaponry  
from Archimedes'  
catapult down to  
MIRV and the  
ABM, emphasizes  
the  
contributions of  
science to  
warfare, and  
includes an*

# Access Free Building The H Bomb

*extensive new  
chapter on the  
weapons of the  
nuclear age.*

*Chapters cover  
Edward Teller's  
role in the J.  
Robert*

*Oppenheimer  
hearings;  
nuclear power  
policy; nuclear  
winter;*

*Strategic*

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Bomb  
Defense

*Initiative; the  
defense of  
Israel.*

*From the  
bestselling  
author of Tuxedo  
Park, the  
fascinating  
story of the  
3,000 people who  
lived together  
in near  
confinement for*

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*more than two  
intense and  
conflicted years  
under J. Robert  
Oppenheimer and  
the world's best  
scientists to  
produce the  
Atomic Bomb and  
win World War  
II. They were  
told as little  
as possible.  
Their orders*



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were to go to  
Santa Fe, New  
Mexico, and  
report for work  
at a classified  
Manhattan  
Project site, a  
location so  
covert it was  
known to them  
only by the  
mysterious  
address: 109  
East Palace.

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*There, behind a wrought-iron gate and narrow passageway just off the touristy old plaza, they were greeted by Dorothy McKibbin, an attractive widow who was the least likely person imaginable to*

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*run a front for  
a clandestine  
defense  
laboratory. They  
stepped across  
her threshold  
into a parallel  
universe--the  
desert hideaway  
where Robert  
Oppenheimer and  
a team of world-  
famous  
scientists raced*

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*to build the  
first atomic  
bomb before  
Germany and  
bring World War  
II to an end.  
Brilliant,  
handsome,  
extraordinarily  
charismatic,  
Oppenheimer  
based his  
unprecedented  
scientific*

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*enterprise in  
the high reaches  
of the Sangre de  
Cristo  
mountains,  
hoping that the  
land of  
enchantment  
would conceal  
and inspire  
their bold  
mission.*

*Oppenheimer was  
as arrogant as*

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Bomb

he was  
inexperienced,  
and few believed  
the thirty-eight-  
year-old  
theoretical  
physicist would  
succeed. Jennet  
Conant captures  
all the  
exhilaration and  
drama of those  
perilous twenty-  
seven months at

Access Free  
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Bomb

*Los Alamos, a secret city cut off from the rest of society, ringed by barbed wire, where Oppenheimer and his young recruits lived as virtual prisoners of the U.S. government. With her dry humor and eye*

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Bomb

*for detail,  
Conant  
chronicles the  
chaotic  
beginnings of  
Oppenheimer's by  
-the-seat-of-his-  
pants operation,  
where freshly  
minted  
secretaries and  
worldly  
scientists had  
to contend with*



# Access Free Building The H Bomb

*living  
conditions  
straight out of  
pioneer days.  
Despite all the  
obstacles, Oppie  
managed to forge  
a vibrant  
community at Los  
Alamos through  
the sheer force  
of his  
personality.  
Dorothy, who*

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Bomb

*fell for him at  
first sight,  
devoted herself  
to taking care  
of him and his  
crew and  
supported him  
through the  
terrifying  
preparations for  
the test  
explosion at  
Trinity and the  
harrowing*

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Bomb

*aftermath of  
Hiroshima and  
Nagasaki. Less  
than a decade  
later,  
Oppenheimer  
became the focus  
of suspicion  
during the  
McCarthy witch  
hunts. When he  
and James B.  
Conant, one of  
the top*

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*administrators  
of the Manhattan  
Project (and the  
author's  
grandfather),  
led the campaign  
against the  
hydrogen bomb,  
Oppenheimer's  
past left-wing  
sympathies were  
used against  
him, and he was  
found to be a*

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Bomb

*security risk  
and stripped of  
his clearance.  
Though Dorothy  
tried to help  
clear his name,  
she saw the man  
she loved  
disgraced. In  
this riveting  
and deeply  
moving account,  
drawing on a  
wealth of*

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Building The H  
Bomb

*research and  
interviews with  
close family and  
colleagues,  
Jennet Conant  
reveals an  
exceptionally  
gifted and  
enigmatic man  
who served his  
country at  
tremendous  
personal cost  
and whose*

Access Free  
Building The H  
Bomb

*singular  
achievement, and  
subsequent  
undoing, is at  
the root of our  
present nuclear  
predicament.*

*Based on  
hitherto  
unavailable  
intelligence  
information,  
this book  
chronicles*

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Bomb

*Japan's efforts to produce an atomic bomb, efforts which encompassed Japan's leading scientists, a network of Spanish spies in North America, an industrial complex in Korea, and*  
*The Children of*



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Bomb

*Atomic Bomb  
Survivors  
The Race to  
Build--and  
Steal--the  
World's Most  
Dangerous Weapon  
Eating Grass  
The History of  
Nuclear Secrecy  
in the United  
States  
How to Build a  
Nuclear Bomb*

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Bomb

**The Atomic  
Bombings of  
Hiroshima and  
Nagasaki  
Giant of the  
Golden Age of  
Physics : a  
Biography**

"For six years I  
have been  
putting together  
a body of basic  
imagery to  
render visible

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*the Bomb and all  
its works. I  
want to open up  
a window on the  
Bomb with  
photographs and  
interviews so  
people will be  
able to view the  
nuclear arsenal  
at its source.  
My purpose is to  
give the  
collection*

# Access Free Building The H Bomb

*imagination  
something  
accurate and  
graphic to hang  
onto as it  
strives to come  
to terms with  
the Bomb's reali  
ty"--Préface.*

*A history of the  
origins and  
development of  
the American  
atomic bomb*

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*program during  
WWII. Begins  
with the  
scientific  
developments of  
the pre-war  
years. Details  
the role of the  
U.S. government  
in conducting a  
secret,  
nationwide  
enterprise that  
took science*

# Access Free Building The H Bomb

*from the  
laboratory and  
into combat with  
an entirely new  
type of weapon.  
Concludes with a  
discussion of  
the immediate  
postwar period,  
the debate over  
the Atomic  
Energy Act of  
1946, and the  
founding of the*

# Access Free Building The H Bomb

*Atomic Energy  
Commission.*

*Chapters: the  
Einstein letter;  
physics  
background,  
1919-1939; early  
government  
support; the  
atomic bomb and  
American  
strategy; and  
the Manhattan  
district in*

# Access Free Building The H Bomb

*peacetime.*

*Illustrated.*

*The present book  
is originally a  
document of  
detailed expert  
investigation of  
the atomic  
bombing that  
took place at  
Hiroshima,  
Japan, during  
the final stage  
of the World War*



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*II by the United  
States. Army.*

*Corps of  
Engineers.*

*Manhattan  
District.*

*Reports his  
investigation of  
the nuclear  
weapons industry  
and the secret  
of the H-bomb.*

*The Legacy of  
Hiroshima*

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**Bomb**

*Restricted Data  
At Work in the  
Fields of the  
Bomb*

*Bomb*

*The Atomic Bomb  
and the End of  
World War II*

*Organizational  
Conflict and the  
Development of  
the Hydrogen  
Bomb*

*The Making of*  
*Page 122/184*

# Access Free Building The H Bomb

*the Hydrogen  
Bomb*

Super Bomb  
unveils the  
story of the  
events leading  
up to President  
Harry S.

Truman's 1950  
decision to  
develop a  
"super," or  
hydrogen, bomb.  
That fateful

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decision and its  
immediate  
consequences are  
detailed in a  
diverse and  
complete account  
built on newly  
released  
archives and  
previously  
hidden  
contemporaneous  
interviews with  
more than sixty

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political,  
military, and  
scientific  
figures who were  
involved in the  
decision. Ken  
Young and Warner  
R. Schilling  
present the  
expectations,  
hopes, and fears  
of the key  
individuals who  
lobbied for and

# Access Free Building The H Bomb

against

developing the H-  
bomb. They

portray the

conflicts that

arose over the H-

bomb as rooted

in the distinct

interests of the

Atomic Energy

Commission, the

Los Alamos

laboratory, the

Pentagon and

# Access Free Building The H Bomb State

Department, the  
Congress, and  
the White House.  
But as they  
clearly show,  
once Truman made  
his decision in  
1950, resistance  
to the H-bomb op  
portunistically  
shifted to new  
debates about  
the development

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of tactical nuclear weapons, continental air defense, and other aspects of nuclear weapons policy. What Super Bomb reveals is that in many ways the H-bomb struggle was a proxy battle over the morality and



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effectiveness of  
strategic  
bombardment and  
the role and  
doctrine of the  
US Strategic Air  
Command.

Between July  
1945 and  
November 1962  
the United  
States is known  
to have  
conducted 216

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atmospheric and  
underwater  
nuclear tests.  
After the  
Limited Test Ban  
Treaty between  
the United  
States and the  
Soviet Union in  
1963, nuclear  
testing went  
underground. It  
became literally  
invisible—but

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more frequent:  
the United  
States conducted  
a further 723  
underground  
tests, the last  
in 1992. 100  
Suns documents  
the era of  
visible nuclear  
testing, the  
atmospheric era,  
with one hundred  
photographs

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drawn by Michael  
Light from the  
archives at Los  
Alamos National  
Laboratory and  
the U.S.

National  
Archives in  
Maryland. It  
includes  
previously  
classified  
material from  
the clandestine

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Lookout Mountain  
Air Force  
Station based in  
Hollywood, whose  
film directors,  
cameramen and  
still  
photographers  
were sworn to  
secrecy. The  
title, 100 Suns,  
refers to the  
response by  
J.Robert

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Oppenheimer to  
the world's  
first nuclear  
explosion in New  
Mexico when he  
quoted a passage  
from the  
Bhagavad Gita,  
the classic  
Vedic text: "If  
the radiance of  
a thousand suns  
were to burst  
forth at once in

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the sky, that  
would be like  
the splendor of  
the Mighty One .  
. . I am become  
Death, the  
destroyer of  
worlds." This  
was  
Oppenheimer's  
attempt to  
describe the  
otherwise  
indescribable.

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100 Suns

likewise

confronts the

indescribable by

presenting

without

embellishment

the stark

evidence of the

tests at the

moment of

detonation.

Since the tests

were conducted



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either in Nevada  
or the Pacific  
the book is  
simply divided  
between the  
desert and the  
ocean. Each  
photograph is  
presented with  
the name of the  
test, its  
explosive yield  
in kilotons or  
megatons, the

# Access Free Building The H Bomb

date and the location. The enormity of the events recorded is contrasted with the understated neutrality of bare data.

Interspersed within the sequence of explosions are pictures of the

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awestruck  
witnesses. The  
evidence of  
these  
photographs is  
terrifying in  
its implication  
while at same  
time profoundly  
disconcerting as  
a spectacle. The  
visual grandeur  
of such imagery  
is balanced by

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the chilling facts provided at the end of the book in the detailed captions, a chronology of the development of nuclear weaponry and an extensive bibliography. A dramatic sequel to Michael

# Access Free Building The H Bomb,

Light's Full  
Moon, 100 Suns  
forms an  
unprecedented  
historical  
document.  
A study of  
nuclear  
warfare's key  
role in  
triggering the  
post-World War  
II confrontation  
between the US

# Access Free Building The H Bomb

and the USSR

After a  
devastating  
world war,  
culminating in  
the obliteration  
of Hiroshima and  
Nagasaki, it was  
clear that the  
United States  
and the Soviet  
Union had to  
establish a  
cooperative

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order if the planet was to escape an atomic World War III.

In this provocative study, Campbell Craig and Sergey Radchenko show how the atomic bomb pushed the United States and the Soviet Union not toward

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cooperation but  
toward deep  
bipolar  
confrontation.  
Joseph Stalin,  
sure that the  
Americans meant  
to deploy their  
new weapon  
against Russia  
and defeat  
socialism, would  
stop at nothing  
to build his own



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bomb. Harry Truman, initially willing to consider cooperation, discovered that its pursuit would mean political suicide, especially when news of Soviet atomic spies

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reached the public. Both superpowers, moreover, discerned a new reality of the atomic age: now, cooperation must be total. The dangers posed by the bomb meant that intermediate measures of

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international cooperation would protect no one. Yet no two nations in history were less prepared to pursue total cooperation than were the United States and the Soviet Union. The logic of the bomb pointed

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them toward immediate Cold War. "Sprightly and well-argued... The complicated history of how the bomb influenced the start of the war has never been explored so well."—Lloyd Gardner, Rutgers

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University “An outstanding new interpretation of the origins of the Cold War that gives equal weight to American and Soviet perspectives on the conflict that shaped the contemporary world.”—Geoffrey

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Roberts, author  
of Stalin's Wars  
The fascinating  
story of the men  
who founded the  
nuclear age,  
fully told for  
the first time  
The story of the  
twentieth  
century is  
largely the  
story of the  
power of science

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and technology.  
Within that  
story is the  
incredible tale  
of the human  
conflict between  
Robert  
Oppenheimer,  
Ernest Lawrence,  
and Edward  
Teller—the  
scientists most  
responsible for  
the advent of

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weapons of mass destruction. How did science—and its practitioners—enlist in the service of the state during the Second World War, become a slave to its patron during the Cold War? The story of these three men,



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builders of the bombs, is fundamentally about loyalty—to country, to science, and to each other—and about the wrenching choices that had to be made when these allegiances came into conflict.

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Gregg Herken  
gives us the beh  
ind-the-scenes  
account based  
upon a decade of  
research,  
interviews, and  
newly released  
Freedom of  
Information Act  
and Russian  
documents.  
Brotherhood of  
the Bomb is a

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vital slice of  
American history  
told authoritati  
vely-and  
grippingly-for  
the first time.

Building the H  
Bomb

How the United  
States Overtook  
Britain in the  
First Nuclear  
Arms Race  
Britain's

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**Bomb**

Pacific H-bomb  
Tests

Robert

Oppenheimer and  
the Secret City  
of Los Alamos

The Advisors

The Tangled

Lives and

Loyalties of

Robert

Oppenheimer,

Ernest Lawrence,

and Edward

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Teller

How to Survive  
the H-bomb, and  
why

After learning of  
atomic physics, H.  
G. Wells began to  
think of its  
potential impact on  
human society. In  
The World Set  
Free, atomic  
energy causes

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massive

unemployment,  
shaking the already  
fragile social order.

The ambitious  
powers of the world  
decide to seize the  
opportunity to  
compete for  
dominance, and a  
world war breaks  
out, echoing the  
looming Great War

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Bomb

about to ignite in 1914. Waking to the catastrophe, humanity begins the hard search for a way into a better future. The novel traces a soldier, an ex-king, a despot, and a sage through a profound transformation of human society, and

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we gain a window into Wells' own thoughts and hopes along the way. With one prophetic stroke, Wells gives the first detailed depiction of atomic energy and its potential destructive power, and predicts the use of the air



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power in modern warfare. He may have even directly influenced the development of nuclear weapons, as the physicist Leó Szilárd, shortly after reading the novel in 1932, then conceived of harnessing the neutron chain

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reaction critical to  
the development of  
the atom bomb.

This book is part of  
the Standard  
Ebooks project,  
which produces  
free public domain  
ebooks.

Here, for the first  
time, in a brilliant,  
panoramic portrait  
by the Pulitzer

Access Free  
Building The H  
Bomb

Prize-winning author of *The Making of the Atomic Bomb*, is the definitive, often shocking story of the politics and the science behind the development of the hydrogen bomb and the birth of the Cold War. Based on secret files in the

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United States and the former Soviet Union, this monumental work of history discloses how and why the United States decided to create the bomb that would dominate world politics for more than forty years.

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Building The H  
Bomb

The International  
Spy Museum's  
Historian takes us  
on a wild tour of  
missions and  
schemes that  
almost happened,  
but were ultimately  
deemed too  
dangerous,  
expensive, ahead of  
their time, or even  
certifiably insane.

Access Free  
Building The H  
Bomb

"Compulsively  
readable laugh out  
loud history."

—Mary Roach, New  
York Times

bestselling author  
of Grunt and Stiff

In 1958, the U.S.  
Air Force nuked the  
moon as a show of  
military force. In  
1967, the CIA sent  
live cats to spy on

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Building The H  
Bomb

the Soviet  
government. In  
1942, the British  
built a torpedo-  
proof aircraft  
carrier out of an  
iceberg. Of course,  
none of these  
things ever actually  
happened. But in  
Nuking the Moon,  
intelligence  
historian Vince

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Building The H  
Bomb

Houghton proves that abandoned plans can be just as illuminating--and every bit as entertaining—as the ones that made it. Vividly capturing the fascinating stories of how twenty-one plans from WWII and the Cold War went



## Access Free Building The H Bomb

from conception,  
planning, and  
testing to  
cancellation,  
Houghton explores  
what happens when  
innovation meets  
desperation: For  
every plan as good  
as D-Day, there's a  
scheme to strap  
bombs to bats or  
dig a spy tunnel

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Building The H  
Bomb

underneath the  
Soviet embassy.  
Along the way, he  
reveals what each  
one tells us about  
twentieth-century  
history, the art of  
spycraft, military  
strategy, and  
famous figures like  
JFK, Castro, and  
Churchill. By turns  
terrifying and

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Building The H  
Bomb

hilarious—but  
always  
riveting—this is the  
unique story of  
history left on the  
drawing board.  
Britain and the H-  
Bomb reveals why,  
in the 1950s, the  
government wanted  
a British H-bomb,  
how the scientists  
and engineers

Access Free  
Building The H  
Bomb

developed it in only  
three years, and  
what were the  
historic  
consequences of  
their achievements.  
The Making of the  
Atomic Bomb  
Brotherhood of the  
Bomb  
The Atomic Bomb  
and the Origins of  
the Cold War

Access Free  
Building The H  
Bomb

Super Bomb

The Making of the  
Pakistani Bomb

Atomic Bomb: The  
Story of the

Manhattan Project  
And the Birth of the  
Modern Arms Race

*Perhaps no scientific  
breakthrough has  
shaped the course of  
human history as*

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Building The H  
Bomb

*much as the harnessing of the atom. Yet the twentieth century might have turned out entirely differently had this powerful technology stayed under the control of Great Britain, whose scientists spearheaded the Allies' nuclear*

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Bomb

*arms program at the  
outset of World War  
II. As award-winning  
science historian  
Graham Farmelo  
reveals in Churchill's  
Bomb, Britain's  
supposedly visionary  
leader remained  
unconvinced of the  
potentially earth-  
shattering*

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Building The H  
Bomb

*implications of his  
physicists' research.  
Churchill ultimately  
shared Britain's  
nuclear secrets  
with—and ceded its  
initiative  
to—America, whose  
successful  
development and  
deployment of an  
atomic bomb placed*



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Building The H  
Bomb

*the United States in a position of supreme power at the dawn of the Nuclear Age. A groundbreaking investigation of the twentieth century's most important scientific discovery, Churchill's Bomb reveals the secret history of the weapon*

Access Free  
Building The H  
Bomb

*that transformed  
modern geopolitics.*

*"Nuclear weapons,  
since their conception,  
have been the subject  
of secrecy. In the  
months after the  
dropping of the  
atomic bombs on  
Hiroshima and  
Nagasaki, the  
American scientific*

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Building The H  
Bomb

*establishment, the  
American  
government, and the  
American public all  
wrestled with what  
was called the  
"problem of secrecy,"  
wondering not only  
whether secrecy was  
appropriate and  
effective as a means  
of controlling this*

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Bomb

*new technology but also whether it was compatible with the country's core values. Out of a messy context of propaganda, confusion, spy scares, and the grave counsel of competing groups of scientists, what*

*historian Alex*

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*Wellerstein calls a "new regime of secrecy" was put into place. It was unlike any other previous or since. Nuclear secrets were given their own unique legal designation in American law ("restricted data"), one that operates*

# Access Free Building The H Bomb

*differently than all other forms of national security classification and exists to this day.*

*Drawing on massive amounts of declassified files, including records released by the government for the first time at the*

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Bomb

*author's request,  
Restricted Data is a  
narrative account of  
nuclear secrecy and  
the tensions and  
uncertainty that built  
as the Cold War  
continued. In the US,  
both science and  
democracy are pitted  
against nuclear  
secrecy, and this*

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Bomb

*makes its history  
uniquely compelling  
and timely"--*

*Tells the story of the  
making of the H-  
bomb and reveals  
how it created a  
nuclear stalemate that  
lasted forty years*