

Group Captain Kenneth Hubbard  
and Michael Simmons

# OPERATION 'GRAPPLE'

TESTING BRITAIN'S  
FIRST H-BOMB



# Operation Grapple Testing Britains First H Bomb

**C. N. Hill**



## **Operation Grapple Testing Britains First H Bomb:**

**Operation 'Grapple'** Kenneth Hubbard, Michael Simmons, 1985-01-01      Britain and the H-Bomb L. Arnold, 2001-03-30  
This book written with unique access to official archives tells the secret story of Britain's H bomb the scientific and strategic background the government's policy decision the work of the remarkable men who created the bomb the four weapon trials at a remote Pacific atoll in 1957-58 and the historic consequences      British Nuclear Weapons and the Test Ban 1954-1973 John R. Walker, 2016-05-23 In 1962 Dean Acheson famously described Britain as having lost an Empire but not yet found a role Perhaps nowhere is this more apparent than in the realms of nuclear weapons An increasingly marginal world power successive post war British governments felt that an independent nuclear deterrent was essential if the country was to remain at the top table of world diplomacy Focusing on a key twenty year period this study explores Britain's role in efforts to bring about a nuclear test ban treaty between 1954 and 1973 Taking a broadly chronological approach it examines the nature of defence planning the scientific goals that nuclear tests were designed to secure Anglo American relationships the efficacy of British diplomacy and its contribution to arms control and disarmament A key theme of the study is to show how the UK managed to balance the conflicting pressures created by its determination to remain a credible nuclear power whilst wanting to pursue disarmament objectives and how these pressures shifted over the period in question Based on a wealth of primary sources this book opens up the largely ignored subject of the impact of arms control on the UK nuclear weapons programme Its appraisal of the relationship between the requirements and developments of the UK nuclear weapons programme against international and domestic pressures for a test ban treaty will be of interest to anyone studying post war British defence and foreign policy history of science arms control disarmament and non proliferation and international relations It also provides important background information on current events involving nuclear proliferation and disarmament      British Nuclear Weapons and the Test Ban 1954-73 John R. Walker, 2010 Focusing on a key twenty year period this study explores Britain's role in efforts to bring about a nuclear test ban treaty between 1954 and 1973 Taking a broadly chronological approach it examines the nature of defence planning Anglo American relationships the efficacy of British diplomacy and UK contributions to arms control and disarmament The appraisal of the relationship between the requirements and developments of the UK nuclear weapons programme against the countervailing international and domestic pressures for a test ban treaty will be of interest to anyone studying post war British defence and foreign policy history of science arms control disarmament and non proliferation and international relations or who is looking for background information on current events involving nuclear proliferation and disarmament      *Grappling with the Bomb* Nic Maclellan, 2017-09-26 *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 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 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 other witnesses to Britain s nuclear folly The British Nuclear Experience John Baylis, Kristan Stoddart, 2015 Based on a detailed analysis of archives and high level interviews this book looks at the role of beliefs culture and identity in the making of British nuclear policy from 1945 through to the present day This book also examines Britain s nuclear experience by moving away from traditional interpretations of why states develop and maintain nuclear weapons by adopting a more contemporary approach to political theory Traditional mainstream explanations tend to stress the importance of factors such as the maximization of power the pursuit of national security interests and the role of structure in a largely anarchic international system This book does not dismiss these approaches but argues that British experience suggests that focusing on beliefs culture and identity provides a more useful insight and distinctive interpretation into the process of British nuclear decision making than the more traditional approaches Elements of Controversy Barton C. Hacker, 1994-01-01 Unforgettable congressional hearings in 1978 revealed that fallout from American nuclear weapons testing in the 1950s had overexposed hundreds of soldiers and other citizens to radiation Faith in governmental integrity was shaken and many people have assumed that such overexposure caused great damage Yet important questions remain the most controversial being did the radiation overexposure in fact cause the cancers and birth defects for which it has been blamed *Elements of Controversy* is the result of a decade of exhaustive research in AEC documentary records and the full clinical and epidemiological literature on radiation effects More concerned with uncovering the historical story than with assigning blame Barton Hacker concludes that every precaution was taken by the AEC to avoid harming test participants or bystanders And he points out the biomedical literature suggests that these precautions worked Yet top officials in Washington for whom the success of nuclear weapons was of overriding importance had asserted that testing involved no risks at all Discrepancies between unverifiable government claims and the revelations that some actual risk was present explain the origins and angry persistence of the controversies Hacker argues The Department of Energy delayed publication of Hacker s study for five years and while his controversial book is sure to draw objections from both sides of the radiation hazard debates it will provide a much needed guide to understanding their polemics Unforgettable congressional hearings in 1978 revealed that fallout from American nuclear weapons testing in the 1950s had overexposed hundreds of soldiers and other citizens to radiation Faith in governmental integrity was shaken and many people have assumed that such overexposure caused great damage Yet important questions remain the most controversial being did the radiation overexposure in fact cause the cancers and birth defects for which it has been blamed *Elements of Controversy* is the result of a decade of exhaustive research in AEC documentary records and the full clinical and epidemiological literature on radiation effects More concerned with uncovering the historical story than with assigning blame

Barton Hacker concludes that every precaution was taken by the AEC to avoid harming test participants or bystanders And he points out the biomedical literature suggests that these precautions worked Yet top officials in Washington for whom the success of nuclear weapons was of overriding importance had asserted that testing involved no risks at all Discrepancies between unverifiable government claims and the revelations that some actual risk was present explain the origins and angry persistence of the controversies Hacker argues The Department of Energy delayed publication of Hacker s study for five years and while his controversial book is sure to draw objections from both sides of the radiation hazard debates it will provide a much needed guide to understanding their polemics

Learning to Love the Bomb Sean M. Maloney,2007 In Learning to Love the Bomb Sean M Maloney explores the controversial subject of Canada s acquisition of nuclear weapons during the Cold War Based on newly declassified Canadian and U S documents it examines policy strategy operational and technical matters and weaves these seemingly disparate elements into a compelling story that finally unlocks several Cold War mysteries For example while U S military forces during the 1962 Cuban Missile Crisis were focused on the Caribbean Sea and the southeastern United States Canadian forces assumed responsibility for defending the northern United States with aircraft armed with nuclear depth charges flying patrols and guarding against missile attack by Soviet submarines This defensive strategy was a closely guarded secret because it conflicted with Canada s image as a peacekeeper and therefore a more passive member of NATO than its ally to the south It is revealed here for the first time The place of nuclear weapons in Canadian history has until now been a highly secret and misunderstood field subject to rumor rhetoric half truths and propaganda Learning to Love the Bomb reveals the truth about Canada s role as a nuclear power

**Air Power Supremo** William Pyke,2022-04-13 Sir John Slessor was one of the twentieth century s most distinguished wartime commanders and incisive military thinkers and William Pyke s comprehensive new biography reveals how he earned this remarkable reputation Slessor a polio victim who always walked with a stick became a First World War pilot in the Sudan and on the Western Front and a squadron and wing commander in India between the wars When aerial warfare was still a new concept he was one of the first to develop practical tactics and strategies in its application In the Second World War as the Commander in Chief of Coastal Command during the Battle of the Atlantic and the RAF in the Mediterranean during the Italian and Balkan campaigns he made a remarkable contribution to the success of Allied air power Then after the war as a senior commander he established himself as one of the foremost experts on strategic bombing and nuclear deterrence That is why this insightful biography of a great British airman and his achievements is so timely and important as we enter a new era of strategic doubts and deterrence at the beginning of the twenty first century William Pyke follows each stage of Slessor s brilliant career as a pilot and commander in vivid detail In particular he concentrates on Slessor s writings from his treatise on the application of air power in support of land armies to his thinking on nuclear deterrence and Western strategy

**The Collected Papers of Bertrand Russell Volume 29** Bertrand Russell,2012-10-12 D tente or Destruction 1955 57 continues

publication of Routledge's multi volume critical edition of Bertrand Russell's shorter writings Between September 1955 and November 1957 Russell published some sixty one articles reviews statements contributions to books and letters to editors over fifty of which are contained in this volume The texts several of them hitherto unpublished reveal the deepening of Russell's commitment to the anti nuclear struggle upon which he embarked in the previous volume of *Collected Papers* Man's Peril 1954-55 Continuing with the theme of nuclear peril this volume contains discussion of nuclear weapons world peace prospects for disarmament and British Soviet friendship against the backdrop of the Cold War One of the key papers in this volume is Russell's message to the inaugural conference of the Pugwash movement which Russell was instrumental in launching and which became an influential independent forum of East West scientific cooperation and counsel on issues as an internationally agreed nuclear test ban In addition to the issues of war and peace Russell now in his eighties continued to take an interest in a wide variety of themes Russell not only addresses older controversies over nationalism and empire religious belief and American civil liberties he also confronts head on the new and pressing matters of armed intervention in Hungary and Suez and of the manufacture and testing of the British hydrogen bomb This volume includes seven interviews ranging from East West Relations after the Geneva conference to a Meeting with Russell

*Chapman Pincher: Dangerous to Know* Chapman Pincher, 2014-02-21 Harry Chapman Pincher is a legend among journalists As an investigative reporter he struck terror into those trying to hide the murky secrets of state After early careers as a teacher a scientist and a soldier Chapman Pincher joined Lord Beaverbrook's then all powerful Daily Express in the summer of 1945 and quickly became the master of the journalistic scoop His first splash a top secret account of the development of the atomic bomb sparked a furious transatlantic row It was only the start of a career in which his name became synonymous with high level exclusives from the most secret corners of government When he finally retired from journalism the leaks kept coming leading to a series of bestselling books on the infiltration of Britain's intelligence services by Moscow culminating in his allegation that the head of MI5 was in fact a Soviet spy In *Dangerous to Know* Chapman Pincher took pen to paper to describe the extraordinary events he witnessed and the varied characters he encountered Colourful indiscreet and compelling this is the life of a true journalistic colossus and a revealing description of the century he bestrode

**Valiant Units of the Cold War** Andrew Brookes, 2012-08-20 The RAF's first Cold War strategic bomber the Vickers Valiant was procured as an insurance measure in case either the Vulcan or Victor was found to have a serious flaw The Valiant was the equivalent of the US B 47 Stratojet and it blazed the trail for the British airborne nuclear deterrent as the aircraft enjoyed a far more active service career than later V bombers It was the launch platform for all British free fall nuclear weapons tests both in the Pacific and in central Australia it took part in the Suez campaign in 1956 and it was the only V bomber to drop conventional weapons in anger until the Falklands operation in 1982 The Valiant was modified to serve in the electronic warfare strategic reconnaissance and airborne tanker role but it had to be grounded in early 1965 when the aircraft succumbed to metal fatigue Featuring

photographs throughout as well as detailed profile artwork this volume explores the entire history of this aircraft      **The Fourth Force** Geoff Puddefoot, 2010-03-10 Set up in August 1905 the Royal Fleet Auxiliary was originally a logistic support organization part of the Navy proper but run on civilian lines comprising a miscellaneous and very unglamorous collection of colliers store ships and harbor craft Just over a century later it has evolved beyond recognition its ships compare in size cost and sophistication with all but the largest warships and the RFA itself has developed into an essential arm of all three Services It is truly the Fourth Force as it is known to its own personnel and without it the current worldwide deployment of British service men and women would be simply impossible This book charts the veritable revolution that has overtaken the RFA since the end of the Second World War New technology and techniques reflect the rapid growth in the importance of logistics in modern warfare while the broadening role of the RFA is to be seen in the history of its operations many of them little known to the public Woven together from a combination of technical ship data official correspondence and personal recollections it is predominantly about the men and women of the RFA and their stories an insight into the underreported history of a service whose initials unofficially translate as Ready For Anything      *Disarming Doomsday* Becky Alexis-Martin, 2019-05-20 Winner of the L H M Ling Outstanding First Book Prize 2020 Shortlisted for the Bread and Roses Award 2020 Since the first atomic bomb exploded over Hiroshima the history of nuclear warfare has been tangled with the spaces and places of scientific research and weapons testing armament and disarmament pacifism and proliferation Nuclear geography gives us the tools to understand these events and the extraordinary human cost of nuclear weapons *Disarming Doomsday* explores the secret history of nuclear weapons by studying the places they build and tear apart from Los Alamos to Hiroshima It looks at the legacy of nuclear imperialism from weapons testing on Christmas Island and across the South Pacific as well as the lasting harm this has caused to indigenous communities and the soldiers that conducted the tests For the first time these complex geographies are tied together *Disarming Doomsday* takes us forward describing how geographers and geotechnology continue to shape nuclear war and perhaps help to prevent it      *Aviation News* ,2008-07

*The Avro Shackleton* Jason Nicholas Moore, 2023-09-17 Long ranged maritime reconnaissance aircraft were a part of British wartime strategy since the First World War in the form of flying boats During the Second World War the flying boats were increasingly replaced by land based aircraft such as the American Lend Lease Flying Fortresses and Liberators After the war these aircraft were replaced by a purpose built aircraft the Avro Shackleton which traced its ancestry through the Lincoln and Lancaster all the way back to the early Second World War bomber the Manchester The road from the Manchester to the Shackleton was a long one and it is described comprehensively The Shackleton itself went through two major changes from the MR 1 to the MR 2 then from the MR 2 to the MR 3 Along with a detailed technical description of the Shackleton and its weaponry photographs and accurate colour profiles accompany the text to illustrate the Shackleton This aircraft is compared and contrasted with its post war piston engined counterparts Its former use with the United Kingdom

and South Africa is also described The current survivors especially an MR 2 WR963 in the United Kingdom and an AEW 2 WL790 in the United States are described in great detail

**Exposed: The Secret History of Britain's Nuclear Experiments** Susie Boniface, 2025-02-28 Uncovers the untold story of Britain's atomic bomb program revealing the devastating human cost and decades long cover up Once upon a time it was necessary to have a weapon that could unleash hell Britain hand picked its healthiest and cleverest men to undertake a truly terrifying mission to create and detonate an atomic bomb Somehow a country beset by post war rationing and isolated from her allies created the most devastating weapons known to man on the cheap and at the hurry up But it came at a horrifying price for them and their families The race to build a nuclear bomb sucked thousands into its vortex who are still dealing with the effects of radiation today veterans widows children scientists and indigenous people all subjected to fear radiation and experimentation A black cloud still hangs over those who survive and their descendants who fear the consequences of every fresh pregnancy Exposed tells the complete story of the Cold War arms race from inception to fallout and for the first time reveals the blood stained truth at the heart of the British state's longest criminal cover up Today the UK's nuclear deterrent is a theoretical shield that shelters millions worldwide protects it from aggressors and guarantees its Prime Minister a seat at the top table But for seven decades the veterans who created it have been denied truth and justice As the handful of survivors launch a last ditch legal bid for the answers Exposed reveals the full price they paid for our peace and prosperity

*Armageddon and Paranoia* Rodric Braithwaite, 2017-09-21 A gripping account of the intense rivalry between Russia and the West from bestselling author and former diplomat Rodric Braithwaite In 1945 the atom bomb was dropped on Hiroshima Warfare was never the same again Armageddon and Paranoia relates how the power of the atom was harnessed to produce weapons capable of destroying human civilisation and what this has done to the world There are few villains in this story on both sides of the Iron Curtain dedicated scientists cracked the secrets of nature while dutiful military men planned out possible manoeuvres and politicians wrestled with intolerable decisions Patriotic citizens acquiesced to the idea that their country needed the ultimate means of defence Some protested citing the unanswerable question what end could possibly be served by such fearsome means None wanted to start a nuclear war but all were paranoid about what the other side might do The danger of annihilation by accident or design has never quite left the world As fears about who controls the nuclear codes continue to make headlines Rodric Braithwaite author of bestsellers *Moscow 1941* and *Afgantsy* has painted a vivid and detailed portrait of this intense period in history and its terrifying implications today

Atomic Thunder Elizabeth Tynan, 2018-07-30 An in depth account of Great Britain's atomic testing efforts in South Australia in the 1950s and 60s and its effects British nuclear testing took place at Maralinga South Australia between 1956 and 1963 after Australian Prime Minister Robert Menzies had handed over 3 200 square kilometres of open desert to the British Government without informing his own people The atomic weapons test series wreaked havoc on Indigenous communities and turned the land into a radioactive wasteland How did it come to pass that a



democracy such as Australia suddenly found itself hosting another country's nuclear program And why has it continued to be shrouded in mystery even decades after the atomic thunder clouds stopped rolling across the South Australian test site In this meticulously researched and shocking work journalist and academic Elizabeth Tynan reveals the truth of what really happened at Maralinga and the devastating consequences of what took place there not to mention the mess that was left behind Praise for Atomic Thunder Compulsive reading Make that compulsory This is a brilliant book Philip Adams     **A Vertical Empire** C. N. Hill, 2012 A Vertical Empire provides a description of the British rocketry and space programme from the 1950s to 1970s detailing the Medium Range Ballistic Missile Blue Streak and its conversion to a satellite launcher as part of the European Launcher Development Organisation ELDO This extensively revised second edition includes material only made available in the past ten years and the text is supplemented by numerous photographs sketches and statistics The all British satellite Black Arrow is described as well as the research rocket Black Knight the Blue Steel missile and the rocket powered interceptor aircraft

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