

NUCLEAR ARMAMENT AND DISARMAMENT

SOUTH AFRICA'S NUCLEAR EXPERIENCE

**HANNES STEYN,
RICHARDT VAN DER WALT AND
JAN VAN LOGGERENBERG**

Armament And Disarmament South Africas Nuclear Experience

Yan Bai



Armament And Disarmament South Africa's Nuclear Experience:

Armament and Disarmament Hannes Steyn, Richardt Van Der Walt, Jan Van Loggerenberg, 2005 South Africa was the first nation in the world to renounce and destroy its top secret nuclear weapons capability. Its government also eliminated the ability to produce and deliver these warheads. Because no one archived the official documentary evidence of the program, various writers and scholars as well as the public at large have been left to speculate and forget the activities that consumed billions of rands and years of dedication. Based on facts and first hand perspectives, Armament and Disarmament offers intimate views from three participants in the nuclear weapons program. A larger picture emerges through their recollections fulfilling the role of essential perspectives and documentation where official records no longer exist. Out of secrecy and a need to know philosophy, many involved in the program both wittingly and unwittingly were never briefed as to how their particular endeavors fit into the bigger scheme. Armament and Disarmament sheds light on the complexity of events surrounding the South African nuclear weapons program and brings tribute to the ingenuity and dedication of all those involved.

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South Africa's Weapons of Mass Destruction Helen E. Purkitt, Stephen F. Burgess, 2005-05-11 South Africa's Weapons of Mass Destruction offers an in depth view of the secret development and voluntary disarmament of South Africa's nuclear biological and chemical weapons program. Project Coast. Helen E. Purkitt and Stephen F. Burgess explore how systems used for nuclear biological and chemical weapons in South Africa were acquired and established beyond the gaze of international and domestic political actors. On the basis of archival evidence from Project Coast and their own extensive interviews with military and political officials, Purkitt and Burgess consider what motivates countries to acquire and build such powerful weaponry and examine when and how decisions are made to dismantle a military arsenal voluntarily. Questions such as how to destroy weapons safely and keep them from reappearing on international markets are considered along with comparative strategies for successful disarmament in other nation states.

Security, Economics and Nuclear

Non-Proliferation Morality Liang Tuang Nah, 2017-09-04 This book seeks to elucidate the decisions of states that have chosen to acquire nuclear arms or inherited nuclear arsenals and have either disarmed or elected to retain their warheads. It examines nuclear arms policy via an interconnected framework involving the eclectic use of national security based realism, economic interdependence liberalism, and nuclear weapons norms or morality based constructivism. Through the various chapters examining the nuclear munitions decisions of South Africa, Ukraine, and North Korea, a case is built that a state's leadership decides whether to keep or give up the Bomb based on interlinked security, economic, and norms governed motivations. Thereafter, frameworks evaluating the likelihood of nuclear proliferation and assessing the feasibility of disarmament are then applied to North Korea and used to examine recent Iranian nuclear negotiability. This book is an invaluable resource for international relations and security studies scholars, WMD analysts, and post graduate or undergraduate candidates focusing on nuclear arms politics related courses. **Strategic Nuclear Sharing** J.

Schofield, 2014-01-21 The sharing of nuclear weapons technology between states is unexpected because nuclear weapons are such a powerful instrument in international politics but sharing is not rare. This book proposes a theory to explain nuclear sharing and surveys its rich history from its beginnings in the Second World War. **Disarming Apartheid** Robin E.

Möser, 2024-03-28 Brings to the fore apartheid South Africa's unique disarmament experience and traces its uncharted path towards NPT accession. **The Global Third Nuclear Age** Andrew Futter, Ludovica Castelli, Cameron Hunter, Olamide Samuel, Francesca Silvestri, Benjamin Zala, 2025-01-17 This book provides an in depth examination of the technological, geopolitical, and normative pressures driving the world into a new, more complex and potentially more dangerous Third Nuclear Age. By adopting an innovative framework for analysis, the book challenges the constrained focus of much of the existing literature by explaining that the pathways to nuclear security for different actors across the globe will vary considerably in this new context. It argues that the Third Nuclear Age will be defined by friction and conflict between Nuclear Traditionalists, Technological Transformers, Hedgers and Balancers, and Activists and Protestors, as different interests and visions of the nuclear future clash. The book draws on dozens of interviews and non-English language sources to provide a global approach and looks at the security politics driving the political debate in 20 different countries across the globe. This book will be of much interest to students of nuclear politics, security studies, and International Relations. The Open Access version of this book is available at www.taylorfrancis.com and has been made available under a Creative Commons Attribution Non-Commercial No Derivatives CC BY NC ND 4.0 license. **Beyond the Euromissile Crisis** Luc-André Brunet, Eirini Karamouzi, 2025-04-01 Historical consensus views the Euromissile Crisis of the early 1980s as the last battle of the Cold War. In this illuminating re-examination of this multifaceted campaign, Beyond the Euromissile Crisis broadens our understanding of anti-nuclear activism, highlighting how it remains a truly global phenomenon. Investigating the motivations, forms of action, and accomplishments of activists from South Africa, Polynesia, Brazil, and elsewhere, this volume offers new ways of

conceptualizing the chronology of anti nuclear protest **Cold War in Southern Africa** Sue Onslow,2009-09-10 This edited volume examines the complexities of the Cold War in Southern Africa and uses a range of archives to develop a more detailed understanding of the impact of the Cold War environment upon the processes of political change In the aftermath of European decolonization the struggle between white minority governments and black liberation movements encouraged both sides to appeal for external support from the two superpower blocs Cold War in Southern Africa highlights the importance of the global ideological environment on the perceptions and consequent behaviour of the white minority regimes the Black Nationalist movements and the newly independent African nationalist governments Together they underline the variety of archival sources on the history of Southern Africa in the Cold War and its growing importance in Cold War Studies This volume brings together a series of essays by leading scholars based on a wide range of sources in the United States Russia Cuba Britain Zambia and South Africa By focussing on a range of independent actors these essays highlight the complexity of the conflict in Southern Africa a battle of power blocs of systems and ideas which intersected with notions and practices of race and class This book will appeal to students of cold war studies US foreign policy African politics and International History Sue Onslow has taught at the London School of Economics since 1994 She is currently a Cold War Studies Fellow in the Cold War Studies Centre IDEAS **Nuclear Strategy in the Modern Era** Vipin Narang,2014-05-25 The world is in a second nuclear age in which regional powers play an increasingly prominent role These states have small nuclear arsenals often face multiple active conflicts and sometimes have weak institutions How do these nuclear states and potential future ones manage their nuclear forces and influence international conflict Examining the reasoning and deterrence consequences of regional power nuclear strategies this book demonstrates that these strategies matter greatly to international stability and it provides new insights into conflict dynamics across important areas of the world such as the Middle East East Asia and South Asia Vipin Narang identifies the diversity of regional power nuclear strategies and describes in detail the posture each regional power has adopted over time Developing a theory for the sources of regional power nuclear strategies he offers the first systematic explanation of why states choose the postures they do and under what conditions they might shift strategies Narang then analyzes the effects of these choices on a state s ability to deter conflict Using both quantitative and qualitative analysis he shows that contrary to a bedrock article of faith in the canon of nuclear deterrence the acquisition of nuclear weapons does not produce a uniform deterrent effect against opponents Rather some postures deter conflict more successfully than others Nuclear Strategy in the Modern Era considers the range of nuclear choices made by regional powers and the critical challenges they pose to modern international security South Africa's Armaments Industry Dan Henk,2006-06-22 In 1994 with the advent of majority rule the new South African government faced the hopeful yet sobering task of negotiating the country s past while crafting its future Included in this process was South Africa s armaments industry which had been an important pillar of t **Seeking the Bomb** Vipin Narang,2022-01-11 The first systematic look at the

different strategies that states employ in their pursuit of nuclear weapons Much of the work on nuclear proliferation has focused on why states pursue nuclear weapons The question of how states pursue nuclear weapons has received little attention Seeking the Bomb is the first book to analyze this topic by examining which strategies of nuclear proliferation are available to aspirants why aspirants select one strategy over another and how this matters to international politics Looking at a wide range of nations from India and Japan to the Soviet Union and North Korea to Iraq and Iran Vipin Narang develops an original typology of proliferation strategies hedging sprinting sheltered pursuit and hiding Each strategy of proliferation provides different opportunities for the development of nuclear weapons while at the same time presenting distinct vulnerabilities that can be exploited to prevent states from doing so Narang delves into the crucial implications these strategies have for nuclear proliferation and international security Hiders for example are especially disruptive since either they successfully attain nuclear weapons irrevocably altering the global power structure or they are discovered potentially triggering serious crises or war as external powers try to halt or reverse a previously clandestine nuclear weapons program As the international community confronts the next generation of potential nuclear proliferators Seeking the Bomb explores how global conflict and stability are shaped by the ruthlessly pragmatic ways states choose strategies of proliferation

A Far-Away War Ian Liebenberg, 2016-01-31 South Africa's armed forces invaded Angola in 1975 setting off a war that had consequences for the whole region that are still felt today A Far Away War contributes to a wider understanding of this war in Angola and Namibia The book does not only look at the war from an e olde South African Defence Force perspective but also gives a voice to participants e on the other sidee emphasising the role of the Cubans and Russians This focus is supplemented by the inclusion of many never before published photographs from Cuban and Russian archives and a comprehensive bibliography

Strategy in the Second Nuclear Age Toshi Yoshihara, James R. Holmes, 2012-12-01 A second nuclear age has begun in the post Cold War world Created by the expansion of nuclear arsenals and new proliferation in Asia it has changed the familiar nuclear geometry of the Cold War Increasing potency of nuclear arsenals in China India and Pakistan the nuclear breakout in North Korea and the potential for more states to cross the nuclear weapons threshold from Iran to Japan suggest that the second nuclear age of many competing nuclear powers has the potential to be even less stable than the first Strategy in the Second Nuclear Age assembles a group of distinguished scholars to grapple with the matter of how the United States its allies and its friends must size up the strategies doctrines and force structures currently taking shape if they are to design responses that reinforce deterrence amid vastly more complex strategic circumstances By focusing sharply on strategy that is on how states use doomsday weaponry for political gain the book distinguishes itself from familiar net assessments emphasizing quantifiable factors like hardware technical characteristics and manpower While the emphasis varies from chapter to chapter contributors pay special heed to the logistical technological and social dimensions of strategy alongside the specifics of force structure and operations They never lose sight of the human factor the pivotal factor

in diplomacy strategy and war *A Perpetual Menace* William Walker, 2011-09-14 Written by a leading scholar in the field of nuclear weapons and international relations this book examines the problem of order arising from the existence of weapons of mass destruction This central problem of international order has its origins in the nineteenth century when industrialization and the emergence of new sciences technologies and administrative capabilities greatly expanded states abilities to inflict injury ushering in the era of total war It became acute in the mid twentieth century with the invention of the atomic bomb and the pre eminent role ascribed to nuclear weapons during the Cold War It became more complex after the end of the Cold War as power structures shifted new insecurities emerged prior ordering strategies were called into question and as technologies relevant to weapons of mass destruction became more accessible to non state actors as well as states William Walker explores how this problem is conceived by influential actors how they have tried to fashion solutions in the face of many predicaments and why those solutions have been deemed effective and ineffective legitimate and illegitimate in various times and contexts

New Directions in African Military History Timothy J. Stapleton, 2025-06-02 *New Directions in African Military History* takes a thematic approach to the history of war and military structures in Africa and highlights the under researched areas African Military History represents a relatively new and fast growing sub field bridging the previously wide gap between the well established genres of African History and Military History Based on a synthesis of existing literature and aimed at a wide readership this book adopts a broad temporal range and uses select examples to highlight a series of points to cover the pre colonial to post colonial eras and offer examples from various parts of the continent This volume evaluates controversial academic debates examining evidence research methods approaches and changing historiographical contexts as well as pointing to potential new areas of research It comprises seven thematic chapters on ways of war weapons technology navies air power battles women combatants and genocide in African history This volume will be of value to students and scholars alike interested in Modern History Military History and African History

Nuclear France Benoît Pelopidas, 2023-12-13 This book offers the first non official history of French nuclear policies which goes beyond the divide between nuclear weapons and nuclear energy policies It addresses the sizing of France s nuclear forces technological assistance to countries with nuclear weapons programs uranium prospection nuclear testing its health effects and protests against it as well as plans to prevent and manage accidents in nuclear power plants It is based on new questions and new sources from France and abroad The chapters in this volume show how independent and interdisciplinary scholarship free from conflicts of interests can uniquely advance our understanding of nuclear history and politics This is the case because it does not treat the categories and judgments of official discourse as neutral starting points of the analysis This volume is based on untapped primary sources from France the UK the US India South Africa and Iran on a new assessment of the health consequences of French nuclear testing in Polynesia thanks to a modern atmospheric particle transport code coupled with historical weather data open source information about radioactive debris mushroom clouds as

well as data on the composition and particle sizes of the fallout and on new survey data about French knowledge of and attitudes towards nuclear weapons and nuclear energy They show notably that the first generation of French nuclear forces lacked technical credibility despite reliance on outside help Several French officials knew this as did France's allies and adversaries Moreover French strategic collaborations associated to nuclear programs extended to India and South Africa nuclear safety regulations changed fundamentally after the Cold War and approximately 110 000 people i e 90% of the French Polynesian population in the 1970s could have received doses that would qualify them for compensation according to French law The volume will be of interest to scholars and students of history politics international relations military history war studies conflict and global governance Most of the chapters in this book were originally published as a special issue in Cold War History A few chapters were first published in the Nonproliferation Review Diplomacy Statecraft and Science Global Security Once and Future Partners William C. Potter, Sarah Bidgood, 2018-10-09 Despite their Cold War rivalry the United States and the Soviet Union frequently engaged in joint efforts to prevent the spread of nuclear weapons Leaders in Washington and Moscow recognized that nuclear proliferation would serve neither country's interests even when they did not see eye to eye in many other areas They likewise understood why collaboration in mitigating this nuclear danger would serve both their own interests and those of the international community This volume examines seven little known examples of US Soviet cooperation for non proliferation including preventing South Africa from conducting a nuclear test developing international safeguards and export control guidelines and negotiating a draft convention banning radiological weapons It uses declassified and recently digitized archival material to explore in depth the motivations for and modalities for cooperation under often adverse political circumstances Given the current disintegration of Russian and US relations including in the nuclear sphere this history is especially worthy of review Accordingly the volume's final chapter is devoted to discussing how non proliferation lessons from the past can be applied today in areas most in need of US Russian cooperation

Handbook of Nuclear Proliferation Harsh V Pant, 2012-02-27 The chapters of this proposed volume are intended to shed light on the diverse themes surrounding this very important issue area in international security Each of the six major sections addresses an aspect of nuclear proliferation that will be critical in determining the future trajectory of global politics in the years to come The first section examines the major thematic issues underlying the contemporary discourse on nuclear proliferation How do we understand this period in proliferation What accounts for a taboo on the use of nuclear weapons so far and will it survive What is the present state of nuclear deterrence models built during the Cold War What is the relationship between the pursuit of civilian nuclear energy and the risks of proliferation Why are we witnessing a move away from non proliferation to counter proliferation The second section gives an overview of the evolving nuclear policies of the five established nuclear powers the USA Russia the United Kingdom France and the People's Republic of China Section three looks at the three de facto nuclear states India Pakistan and Israel The fourth section examines the three problem areas in

the proliferation matrix today Iran North Korea and the potent mix of non state actors and nuclear weapons The fifth section sheds light on an important issue often ignored during discussions of nuclear proliferation cases where states have made a deliberate policy choice of either renouncing their nuclear weapons programme or have decided to remain a threshold state The cases of South Africa Egypt and Japan will be the focus of this section The final section will examine the present state of the global nuclear non proliferation regime which most observers agree is currently facing a crisis of credibility The three pillars of this regime the Nuclear Non Proliferation Treaty NPT the Comprehensive Test Ban Treaty CTBT and the Fissile Material Cut Off Treaty FMCT will be examined This is followed by an analysis of the present trends and prospects for US Russia nuclear arms control The impact of missile defenses and the US India civilian nuclear energy co operation pact will be examined so as to ascertain whether they have weakened or strengthened the global non proliferation regime The chapters in this volume aim to document the increasing complexity of the global nuclear proliferation dynamic and the inability of the international community to come to terms with a rapidly changing strategic milieu The future in all likelihood will be very different from the past and the chapters in this volume will try to develop a framework that may help gain a better understanding of the forces that will shape the nuclear proliferation debate in the years to come

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The Unspoken Alliance Sasha Polakow-Suransky, 2010 A revelatory account of Israel s secret military cooperation with apartheid South Africa Prior to the Six Day War Israel was the darling of the international Left But after its occupation of Palestinian territories in 1967 Israel found itself isolated from former allies and threatened anew by old enemies Sasha Polakow Suransky tells the full story of how Israel s booming arms industry and South Africa s isolation led to a hidden military alliance that grew deeper after the Likud Party came to power in 1977 and continued even after Israel passed sanctions against South Africa in the late 1980s Polakow Suransky has uncovered previously classified details of countless arms deals conducted behind the backs of Israel s diplomatic corps and in violation of the United Nations arms embargo Based on extensive archival research and interviews with former generals and high level government officials in both countries this book tells a troubling story of Cold War paranoia moral compromises and Israel s estrangement from the Left From publisher description

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