

Lucky E. Asuelime · Raquel A. Adekoye

# Nuclear Proliferation in South Africa

History and Politics

 Springer

# South Africa And Nuclear Proliferation

**Eric A. Croddy, Jeffrey A. Larsen, James  
J. Wirtz**



## **South Africa And Nuclear Proliferation:**

*South Africa and Nuclear Proliferation* J.D.L. Moore, 1987-06-18      Nuclear Proliferation in South Africa Lucky E. Asuelime, Raquel A. Adekoye, 2016-06-06 This book investigates drivers and trends in nuclear proliferation in the Global South Based on an in depth analysis of South Africa s nuclear history it examines general causes of proliferation such as technical capabilities and constraints a country s motivation to build a nuclear bomb and particular domestic and international situations It also highlights Britain s role in the development of technological capability in South Africa and explains how nuclear weapons influence international relations Finally the study offers effective solutions to the problem of nuclear proliferation in developing countries      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      South Africa and Nuclear Proliferation: South Africa's Nuclear Capabilities and Intentions in the Context of International Non-proliferation Policies J. D. L. Moore, University of Manchester. Department of Liberal Studies in Science, 1983      Out of (South) Africa Roy E. Horton, 2000      **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      The Bomb Nic Von Wielligh, Lydia Von Wielligh-Steyn, 2015 South Africa s Bomb kept the world guessing for years Six and a half nuclear bombs had been secretly built and destroyed

former South African President F W de Klerk announced in 1993 No other country has ever voluntarily destroyed its nuclear arsenal From 1975 Nic von Wielligh was involved in the production of nuclear weapons material the dismantling of the nuclear weapons and the provision of evidence of South Africa's bona fides to the international community The International Atomic Energy Agency declared South Africa's Initial Report to be the most comprehensive and professional that they had ever received In this book the nuclear physicist and his daughter Lydia von Wielligh Steyn tell the gripping story of the splitting of the atom and the power it releases It is an account of ground breaking research and the scientists responsible it deals with uranium enrichment the arms race and South Africa's secret programme The Bomb South Africa's nuclear programme is a story of nuclear explosions espionage smuggling of nuclear materials and swords that became ploughshares

**Impact Upon U.S. Security of a South African Nuclear Weapons Capability** Kenneth L. Adelman, Albion W. Knight, 1981 Contents Research Problem and Assumptions South Africa's Nuclear Capability Utility for South African Nuclear Weapons The Effect of South African Proliferation on Western Economic Interests The Effect of South African Proliferation on Western Interests in Access to Strategic Materials The Effect of South African Proliferation on Western Political Interests The Effect of South African Proliferation on Western Military Interests South African Proliferation and Western Security Interests in General fr 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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**Democratic South Africa's Foreign Policy** Suzanne Graham, 2016-10-06 This book provides readers with the first comprehensive study of South Africa s foreign policy conducted in a multilateral setting by placing on record over 1000 of South Africa s votes at the United Nations over a 20 year period The study investigates consistency in terms of South Africa s declared foreign policy and its actual voting practices at the United Nations Democratic South Africa s Foreign Policy Voting Behaviour in the United Nations offers a compendium of South Africa s United Nations behaviour during a poignant transitional period in the country s recent history In setting out a framework for analysing the conduct of other countries voting behaviour in parallel with this study it can be used to advance the field as a useful comparative tool This book presents the material needed for International Relations scholars and practitioners in the field to make a reasoned and reflective assessment of this dimension of South Africa s foreign policy

**World Peace and the Developing Countries** Joseph Rotblat, Ubiratan D'Ambrosio, 1986-10-03

**Over the Horizon Proliferation Threats** James Wirtz, Peter Lavoy, 2012-04-25

In every decade of the nuclear era one or two states have developed nuclear weapons despite the international community s opposition to proliferation In the coming years the breakdown of security arrangements especially in the Middle East and Northeast Asia could drive additional countries to seek their own nuclear biological or chemical NBC weapons and missiles This likely would produce greater instability more insecure states and further proliferation Are there steps concerned countries can take to anticipate prevent or dissuade the next generation of proliferators Are there countries that might reassess their decision to forgo a nuclear arsenal This volume brings together top international security experts to examine the issues affecting a dozen or so countries nuclear weapons policies over the next decade In Part I National Decisions in Perspective the work describes the domestic political consideration and international pressures that shape national nuclear

policies of several key states In Part II Fostering Nonproliferation the contributors discuss the factors that shape the future motivations and capabilities of various states to acquire nuclear weapons and assess what the world community can do to counter this process The future utility of bilateral and multilateral security assurances treaty based nonproliferation regimes and other policy instruments are covered thoroughly

The Evolution of Nuclear Strategy Lawrence Freedman, Jeffrey Michaels, 2019-07-31 The Evolution of Nuclear Strategy quickly established itself as a classic when it first appeared in 1981 This edition makes it even better incorporating as it does new material about the Cold War and up dating to include subsequent developments Filled with insights and penetrating analysis this volume is truly indispensable Robert Jervis Author of How Statesmen Think Freedman and Michaels have written a thorough and thought provoking guide to nuclear strategy The authors analyze the causes of both wise and unwise strategic decisions in the past and thereby shine a bright light on dilemmas we face in our common nuclear future Scott Sagan Stanford University USA With its comprehensive coverage clear and direct language and judicious summaries of a vast literature this new and wholly revised edition of The Evolution of Nuclear Strategy will be essential reading for any student of nuclear history strategic studies or contemporary international relations Matthew Jones London School of Economics and Political Science UK Sir Lawrence Freedman's The Evolution of Nuclear Strategy has been the first port of call for three generations of academics and policy makers wanting to familiarize themselves with the subject matter The success of this book could have led Professor Freedman to satisfy himself with regular updates or afterwords But the tireless author is now gracing us with an entirely revised edition of his masterpiece nearly forty years after its initial publication taking into account findings from archives and declassified documents At the same time The Evolution of Nuclear Strategy remains true to its original purpose and spirit an easy to read manual light with footnotes focusing on policy rather than on theory and thus the best possible introduction to an arcane subject In an era when nuclear strategy issues seem to be becoming relevant again its historical scope and breadth will make its reading or re reading even more useful if only because knowing about the absurdity of the Cold war arms race is a prerequisite if one does not want to repeat its mistakes Bruno Tertrais Deputy Director Fondation pour la Recherche Stratégique France This updated and improved edition of the classic text on the evolution of nuclear strategy is a must read for anyone attempting to understand the nuclear predicament and where it is heading Impressive in every respect T V Paul James McGill Professor of International Relations McGill University Canada and the author of The Tradition of Non Use of Nuclear Weapons After the end of the Cold War we hoped for a world in which nuclear weapons would have low salience or might even disappear into virtual non assembled arsenals Alas they are coming to the fore again With changes in political context and technology it is thus pressing that the Bible on the Evolution of Nuclear Strategy should be updated Lawrence Freedman's great classic has been admirably updated with the help of Jeff Michaels The work just as its previous editions thus remains the definitive and authoritative point of reference on nuclear strategy in the twenty first century Beatrice

Heuser Chair of International Relations University of Glasgow Scotland First published in 1981 Lawrence Freedman's *The Evolution of Nuclear Strategy* was immediately acclaimed as the standard work on the history of attempts to cope militarily and politically with the terrible destructive power of nuclear weapons It has now been completely rewritten drawing on a wide range of new research and updated to take account of the period following the end of the cold war and covering all nuclear powers

*The Politics of Gender and the Culture of Sexuality* Ali A. Mazrui, 2014-07-08 *The Politics of Gender and the Culture of Sexuality* outlines theories of gender within the intellectual paradigm of the triple heritage Islam Africanity and the West This book describes the impact of individual contexts and politics on meanings attributed to the human body *The Politics of Gender and the Culture of Sexuality* explores how men and women relate to each other in monogamous and polygamous marriage race rivalries slavery miscegenation cultures of procreation family planning and the Islamic view of women's dignity vis vis the Western view of women's liberty In doing so the author and editor present a multifaceted and dynamic theoretical discourse of gender

*Weapons of Mass Destruction* Eric A. Croddy, Jeffrey A. Larsen, James J. Wirtz, 2018-10-12 Whether one is interested in learning about anthrax sarin the neutron bomb or any other weapon of mass destruction this thorough and detailed reference is the place to find answers The threat posed by weapons of mass destruction WMD whether nuclear radiological chemical or biological is the number one topic of concern for the intelligence community first responders policymakers and myriad non governmental organizations and many members of the general public This authoritative reference will serve all of those parties by covering the full spectrum of mass casualty weapons The guide will not only enable people to educate themselves but also to separate the truth from the spurious information that abounds The book offers an A to Z listing of major topics making finding information about concepts scientific theories and realities of WMD fast and easy While the framework of WMD goes back centuries the major focus of this reference is on weapons that date from the use of chemical warfare in World War I The book also covers WMD from the early nuclear era World War II the Cold War and the present Syria North Korea etc Each entry is written in a clear accessible style and includes crucial background information making this book an essential resource for both lay readers and specialists Armed with this portable database readers will have the confidence to deal with discuss or write about WMD of all kinds based on an understanding of relevant concepts policies and scientific fundamentals

[Iran's Nuclear Option](#) Al J. Venter, 2020-01-10 The most systematic exposition to date about Iran's nuclear program and its role in world affairs Middle East Quarterly Since the Islamic Republic of Iran admitted that it was secretly producing highly enriched weapons grade uranium nations have struggled to react appropriately For the first time and in full detail this book explains exactly what the Europeans and United Nations have been trying to forestall Iran could shortly have the ability to strike its immediate Middle Eastern neighbors and more distant nations with nuclear weapons With the size to dominate its region Iran also has an avowed mission to export its theocratic principles and in recent decades has been a notorious supporter of terrorist organizations Its parallel development

of atomic bombs represents the greatest threat to the balance of world power we've seen in the new millennium Here defense expert Al Venter reveals the extent to which Iran's weapons program has developed and the clandestine manner in which its nuclear technology has been acquired He demonstrates how Tehran has violated the Nuclear Non Proliferation Treaty and details the involvement of several countries shown by the IAEA to have trafficked in illegal nuclear materials He proves for the first time a direct link between the now defunct South African apartheid regime's nuclear program and Tehran's current nuclear ambitions Venter digs deep into subjects such as Iran's fervor on behalf of Shiite Islam its missile program developed alongside its nuclear one and the role of the Pasdaran the Revolutionary Guards whose tentacles have spread throughout the Middle East and increasingly farther afield While noting Tehran's support of terrorist groups such as Hezbollah Venter follows closely how the Persian homeland itself has progressed toward a strategic nuclear capability that would make recent terrorist attacks look obsolete Iran's Nuclear Option is essential reading for anyone with an interest in global security the perilous volatility of the Middle East and America's options should it be willing and able to counter the threat while time remains

**The Art of Coercion** Reid B. C. Pauly, 2025-08-15 The Art of Coercion presents a fresh explanation for the success and failure of coercive demands in international politics Strong states are surprisingly bad at coercion History shows they prevail only a third of the time Reid B C Pauly argues that coercion often fails because targets fear punishment even if they comply In this damned if you do damned if you don't scenario targets have little reason to obey Pauly illustrates this logic in nuclear counterproliferation efforts with South Africa Iraq Libya and Iran He shows that coercers face an assurance dilemma When threats are more credible assurances not to punish are less so But without credible assurances targets may defy threats bracing for seemingly inevitable punishment For coercion to work as such coercers must not only make targets believe that they will be punished if they do not comply but also that they will not be if they do Packed with insights for any foreign policy challenge involving coercive strategies The Art of Coercion crucially corrects assumptions that tougher threats alone achieve results

Proliferation and Arms Control United States. Congress. House. Committee on Foreign Affairs, 1991

**Weapons of Mass Destruction** Raja Menon, 2004 Against the backdrop of international attempts to prevent the use of weapons of mass destruction this volume of essays by well known analysts examines what the threat to India could entail highlights the differences between state use of these weapons and their use by non state actors discusses possible scenarios India needs to guard against and protective measures it can take and determines the position the Indian government needs to take in the international arena in respect of initiatives to prevent the use of weapons of mass destruction A salient feature of the book is the detailed suggestions it offers of efforts required to set up material and human resources to respond to such catastrophes

Networked Nonproliferation Michal Onderco, 2021-10-05 The Treaty on Non Proliferation of Nuclear Weapons NPT had many opponents when in 1995 it came up for extension The majority of parties opposed extension and experts expected a limited extension as countries sought



alternative means to manage nuclear weapons But against all predictions the treaty was extended indefinitely and without a vote Networked Nonproliferation offers a social network theory explanation of how the NPT was extended giving new insight into why international treaties succeed or fail The United States was the NPT's main proponent but even a global superpower cannot get its way through coercion or persuasion alone Michal Onderco draws on unique in depth interviews and newly declassified documents to analyze the networked power at play Onderco not only gives the richest account yet of the conference looking at key actors like South Africa Egypt and the EU but also challenges us to reconsider how we think about American power in international relations With Networked Nonproliferation Onderco provides new insight into multilateral diplomacy in general and nuclear nonproliferation in particular with consequences for understanding a changing global system as the US the chief advocate of nonproliferation and a central node in the diplomatic networks around it declines in material power

## Decoding **South Africa And Nuclear Proliferation**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**South Africa And Nuclear Proliferation**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **South Africa And Nuclear Proliferation Introduction**

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