

RESEARCH ARTICLE

# Thinking through and beyond survival in a nuclear age

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## Abstract

This article investigates the assumption that survival should form the goal of the politics both of nuclear weapons and of International Relations (IR). Rather than being a self-evident grounding upon which political contest then plays out, survival has its own implications and limitations in the thermonuclear age, in which survival has become premised on the threat of total annihilation. As such, nuclear weapons allow us to unpack 'survival' in a unique way because they have the power to destroy everything: to end all survival. Yet at the same time, nuclear weapons have become deeply embedded into our world. In an age of thermonuclear weaponry, survival through annihilation has thus become a paradox that structures the ambivalence of nuclear technology and the tensions of nuclear politics. The article first establishes the nature of assumptions of survival as a taken-for-granted goal of IR and nuclear weapons politics. It then argues that the paradoxical logic of survival as annihilation that accompanied the nuclear era has resulted in a politics of repetition in which both deterrence and disarmament actors have become trapped. The article ends by outlining the limits of understanding whose survival is at stake in nuclear weapons discourse and why this matters.

**Keywords:** IR theory; nuclear deterrence; nuclear disarmament; nuclear revolution; nuclear weapons; survival

## Introduction

Nuclear weapons scholarship and policy have typically grappled with the challenge of nuclear weapons in terms of survival and annihilation: how can we ensure our survival in a nuclear-armed world? This seems to be common sense. Given that several states have the power to decide to destroy life as we know it in a matter of hours, stopping this from happening should be the principal purpose of nuclear politics. While there has been much written about the recent polarisation<sup>1</sup> of nuclear studies and nuclear politics between 'disarmers' and 'deterriers', the place of survival as the self-evident grounding of nuclear politics cuts across both camps. They may differ in how best to ensure survival, but both broadly accept survival as a fundamental purpose of their work. Survival as the opposite of apocalypse has formed an unquestioned goal of nuclear politics and the foundation on which the contest between nuclear deterrence and disarmament politics occurs, in that the two positions propose antithetical solutions to the question of survival.

The discipline of International Relations (IR) has similarly placed survival as the primary concern of the international realm, for example in Martin Wight's assertion that 'international theory

<sup>1</sup> Kjetil Egeland, 'How I learned to stop worrying and embrace diplomatic "polarization"', *Peace Review*, 29:4 (2017), pp. 482–8.

# Nuclear Age Thinking

**Michael J. Shapiro**



## **Nuclear Age Thinking:**

*Nuclear Age Thinking* Apostolos N. Depastas, 1991-06-01      *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 available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**The Development of British Naval Thinking** Geoffrey Till, 2006-03-15 In this book Britain's leading naval historians and analysts have come together to produce an investigation of the development of British naval thinking over the past three centuries from the sailing ship era to the present day

*Thinking Unthinkable* Herman Kahn, 1985-09-13 In this reconsideration of his controversial study *Thinking about the Unthinkable* 1962 Kahn addresses deterrence concepts and specific arms control issues which are likely to remain at the forefront of the nuclear debate Taking into account the political technical and moral developments of the past 20 years he argues that since nuclear weapons exist and cannot be disinvented it is crucial to maintain a militarily strong United States while making every effort to enhance deterrence He believes that for a government to pursue deterrence at any cost without contingency plans is not only irresponsible but immoral and that the only justification for maintaining a nuclear arsenal is to deter balance or correct the use of nuclear weapons by others ISBN 0 671 47544 4 16 95

**New Directions in Strategic Thinking 2.0** Russell W. Glenn, 2018-07-06 The Australian National University's Strategic Defence Studies Centre SDSC is Australia's premier university based strategic studies think tank Fifty years after the Centre was founded in 1966 SDSC celebrated its continued research publications teaching and government advisory role with a two day conference entitled *New Directions in Strategic Thinking 2.0* The event saw the podium graced by many of the world's premier thinkers in the strategic studies field An evening between those tours to the lectern brought together academics practitioners and other honoured guests at a commemorative dinner held beneath the widespread wings of the G for George bomber in the Australian War Memorial an event that included SDSC's own Professor Desmond Ball AO making his last public appearance Since SDSC's 25th anniversary the world has seen the collapse of the Soviet Union and the end of the Cold War Bipolarity

gave way to the emergence of the United States as the world's sole superpower a status many now see as under threat Both the nature of the threats and identity of individual competitors has changed in the interim quarter century Non state actors are presenting rising challenges to national governments Meanwhile a diminished Russia and far more wealthy China seek to reassert themselves Never before has the call for reasoned innovative security studies thinking been more pronounced Rarely has a group so able to offer that thought come together as was the case in July 2016 This book encapsulates the essence of this cutting edge thinking and is a must read for those concerned with emerging strategic challenges facing Australia and its security partners

**Strategic Thinking** Philip Windsor, 2002 Windsor 1935 2000 retired from over 30 years at the London School of Economics in 1997 In his final book he introduces some of the principle features of strategic thought during the Cold War for students of international relations and general readers He thinks it is time to examine and question the validity of a complex of thinking that he along with many others took entirely for granted for a long time Berdal and Economides are with the International Institute for Strategic Studies Annotation copyrighted by Book News Inc Portland OR

*Strategic Thinking, Deterrence and the US Ballistic Missile Defense Project* Reuben Steff, 2016-04-01 A systematic critical survey of American strategic thinking and the strategic culture in which it is formed In particular this book seeks to interrogate the theory and strategy of nuclear deterrence and its relationship to the concept of missile defence Drawing widely on the theoretical literature in international relations and strategic studies it identifies the key groups that have competed over America's nuclear policy post 1945 and examines how the concept of missile defence went through a process of gestation and intellectual contestation leading to its eventual legitimization in the late 1990s Steff sheds light on the individuals groups institutions and processes that led to the decision by the Bush administration to deploy a national missile defence shield Additionally Steff systematically examines the impact deployment had on the calculations of Russia and China In the process he explains that their reactions under the Bush administration have continued into the Obama era revealing that a new great power security dilemma has broken out This Steff shows has led to a decline in great power relations as a consequence

Thomas Schelling and the Nuclear Age Robert Ayson, 2004-07 An illuminating insight into the work of Thomas Schelling one of the most influential strategic thinkers of the nuclear age By the time of the Cuban Missile Crisis and the United States early forays into Vietnam he had become one of the most distinctive voices in Western strategy This book shows how Schelling's thinking is much more than a reaction to the tensions of the Cold War In a demonstration that ideas can be just as significant as superpower politics Robert Ayson traces the way this Harvard University professor built a unique intellectual framework using a mix of social scientific reasoning from economics to social theory and psychology As such this volume offers a rare glimpse into the intellectual history which underpins classical thinking on nuclear strategy and arms control thinking which still has an enormous influence in the early twenty first century

**Thinking the Unthinkable** Lydia Dotto, 2006-01-01 An overwhelming majority of climatologists believe there will be significant changes in climate during the

next century Although the rate and magnitude of this change are uncertain it could happen very rapidly In August 1987 a working group of fifty scientists and humanists from Russia Eastern and Western Europe the United States and Canada gathered in Calgary to focus their attention on the impact upon civilization of sudden climate change One of the more revealing aspects of climate change discussed in *Thinking the Unthinkable Civilization and Rapid Climate Change* is that contrary to the popular viewpoint complex societies are more vulnerable to environmental and climate disruption than less advanced societies This work was written to emphasize the gravity of the situation we now face It should serve to inform not only those concerned with our global environment but more importantly the policy makers who will be responsible for setting new guidelines and policies aimed at safeguarding our fragile environment **An Officer's Story** Steve Kime,2015-09-18 This book is an intellectual journey It is based in the fundamental Middle American values and opinions good and bad of the happy days of the fifties These values and opinions are dragged kicking and screaming through a rich and varied set of experiences as a young man amazingly is nurtured and tolerated by a usually hidebound navy The journey ends with summaries about Russia US Military policy and strategy and the prospects for the social and political turmoil in America

**Assembly Bill** California. Legislature. Assembly,1985 **The Violent American Century** John W. Dower,2017-03-20 Tells how America since the end of World War II has turned away from its ideals and goodness to become a match setting the world on fire Seymour Hersh investigative journalist and national security correspondent World War II marked the apogee of industrialized total war Great powers savaged one another Hostilities engulfed the globe Mobilization extended to virtually every sector of every nation Air war including the terror bombing of civilians emerged as a central strategy of the victorious Anglo American powers The devastation was catastrophic almost everywhere with the notable exception of the United States which exited the strife unmatched in power and influence The death toll of fighting forces plus civilians worldwide was staggering *The Violent American Century* addresses the US led transformations in war conduct and strategizing that followed 1945 beginning with brutal localized hostilities proxy wars and the nuclear terror of the Cold War and ending with the asymmetrical conflicts of the present day The military playbook now meshes brute force with a focus on non state terrorism counterinsurgency clandestine operations a vast web of overseas American military bases and most touted of all a revolutionary new era of computerized precision warfare In contrast to World War II postwar death and destruction has been comparatively small By any other measure it has been appalling and shows no sign of abating The author recipient of a Pulitzer Prize and a National Book Award draws heavily on hard data and internal US planning and pronouncements in this concise analysis of war and terror in our time In doing so he places US policy and practice firmly within the broader context of global mayhem havoc and slaughter since World War II always with bottom line attentiveness to the human costs of this legacy of unceasing violence Dower delivers a convincing blow to publisher Henry Luce s benign *American Century* thesis *Publishers Weekly* *The Just War* Paul Ramsey,2002 With a new foreword by noted theologian and ethicist Stanley

Hauer was this classic text on war and the ethics of modern statecraft written at the height of the Vietnam era in 1968 speaks to a new generation of readers Characterized by a sophisticated yet back to basics approach The Just War begins with the assumption that force is a fact in political life which must either be reckoned with or succumbed to It then grapples with modern challenges to traditional moral principles of just conduct in war the morality of deterrence and a just war theory of statecraft

**New Political Thinking in the Nuclear Age** Vladimir Viktorovich Sogrin, 1990 Title in colophon Novoe politicheskoe myshlenie v i aderny i vek

An Introduction to Strategic Studies Barry Buzan, 1987-09-04 An Introduction to Strategic Studies addresses some of the major questions that govern both international relations and human survival This book provides a comprehensive introduction to the core concepts of contemporary strategic thinking It argues that strategic studies is about the impact of military technology on relations between states and that its specialised contribution must always be seen within the broader context of international economic and political relations

**State of Doom** Barry Scott Zellen, 2011-12-15

Thinking Beyond the Unthinkable Jonathan Stevenson, 2008 STEVENSON THINKING BEYOND THE UNTH

**Strategies of Arms Control** Stuart Croft, 1996 In this groundbreaking analysis Stuart Croft brings the subject of arms control into the era of complex multi polar international relations He moves beyond the narrow definitions of the phenomenon associated with the Cold War to show how it not only has a long past but also a clear future The author begins by tracing the history of agreements between polities over weapons back to ancient times An understanding of this history allows him to put forward a typology of arms control It occurs at the end of major conflicts stabilises balances between states develops norms of behaviour manages weapons proliferation and acts as a tool of international organisations Stuart Croft examines the evolution of these five qualitatively different strategies and applies the typology to arms control agreements in the post Cold War world This definitive new study will be of interest to students in international relations and security studies as well as specialists in these disciplines

**The Political Sublime** Michael J. Shapiro, 2018-03-15 In The Political Sublime Michael J Shapiro formulates an original politics of aesthetics through an analysis of the experience of the sublime Turning away from Kant s analysis of the sublime experience as a validation of the existence of a universal common sense Shapiro draws on Deleuze Lyotard and Ranci re to show how incomprehensible events and dilemmas provide openings for new political formations He approaches the sublime through a range of artistic and cultural texts that address social crises and natural disasters from the writing of James Baldwin and Ta Nehisi Coates to the films of Ingmar Bergman and Spike Lee these works suggest ways to channel the disruptive effects of the sublime into resistance to authority and innovative political initiative Whether stemming from the threat of nuclear annihilation or the aftermath of an earthquake the violence of racism and terrorism or the devastation of industrialism sublime experience Shapiro contends allows for a rethinking of events in ways that reveal redistribute and create conditions of possibility for alternative communities of sense

**The Gorbachev Regime** Hiroshi Kimura, 2017-09-29 In the early days of Gorbachev s rise to power in the Soviet Union an international group

of U S and Japanese authorities probed the issues and forces that shaped a mammoth struggle within the Soviet Union This book examines Gorbachev s reforms the extent of their dramatic changes and the sobering evidence of their limits The contributors assessments range from wonder at the new atmosphere and expressive possibilities to recognition of the reforms reversibility increasing difficulty and the long road ahead This is a fascinating contemporary review of factors that led to the demise of the Soviet Union only a few years later Perestroika the transformation of Soviet society and economic relations epitomized Gorbachev s remedy for the ailing Soviet economy which developed into a redefinition of Soviet socialism Gorbachev emphasized that the success of reform depended not only on the technology and money but also to succeed the reforms must overcome Stalin s legacy of bureaucratic centralism and enlist the creative energies of the Soviet people This volume explains why the strength and nature of the reform coalition and anti reform opposition the limits and prospects of reform and the compatibility of decentralizing reforms within the centralized one party Soviet system and the implications of reforms for Soviet relations with the rest of the world

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the infection? 3. What are some possible causes of skin infections? List ... Chapter 21 Flashcards (review the NEWBORN NIGHTMARE case study). Exfoliative toxin from Staph. aureus. Fever, red raised blistering skin, peeling skin. Culture baby's nose and ... CASE TEACHING NOTES for "The Case of the Newborn ... by A Wade — CASE TEACHING NOTES for "The Case of the Newborn Nightmare" by Andrea Wade. Page 3. ANSWER KEY. Answers to the questions posed in the case ... Solved Newborn nightmare by Andrea Wade, what are the Oct 5, 2019 — Newborn nightmare is a case study done by Dr Andrea wade. Case study focuses on development of mysterious rashes among newborns. The Case of the Newborn Nightmare Oct 10, 2001 — Three newborns left in the care of "Dr. Mark Maddison" have developed a mysterious rash. Under increasing pressure from hospital ... Lab Practical Flashcards In regard to the "Case of the Newborn Nightmare," what was the name of the bacteria that caused the whole neighborhood to be sick? What is the common source ... 1998 Nissan Patrol GR Y61 Service Repair Manual Nov 1, 2019 — FOREWORD This manual contains maintenance and repair procedures for NISSAN PATROL GR, model Y61 series. In order to assure your safety and the ... Workshop Repair Manual for Patrol 1998-09 GU Y61 Book ... Diesel and Petrol/Gasoline Engines including Turbo with World Wide Specifications Over 520 pages. Step by step instructions in every chapter. Nissan Patrol Y61 (GU) 1997 2010 Free PDF Factory ... Download Free PDF Manuals for the Nissan Patrol Y61 (GU) 1997-2010 Factory Service Manual, Repair Manual and Workshop Manual. 1998 Nissan Patrol Y61 GU Factory Service Manual Workshop manual for the Y61 GU series of the Nissan Patrol. Includes all aspects of servicing repair and maintenance. Download Link Right Click & select 'Save ... 1998 Nissan Patrol GR (Y61) Service Repair Manual ... This repair manual contains maintenance and repair procedures for Nissan Patrol GR Model Y61 Series, european market. This is a complete Service Manual ... Nissan Patrol 98-11 Repair Manual by John Harold Haynes Excellent workshop manual for the DIY home mechanic. Plenty of background ... Customer Service · English United States. Already a customer?Sign in · Conditions of ... 1998 Nissan Patrol GR Y61 Series Factory Service Repair ... Jul 28, 2014 — This is an all-inclusive and detailed service manual of 1998 Nissan Patrol GR Y61. It is a complete trouble-free manual and comprises of each and ... Workshop Manual Nissan Patrol Y61 (1998) (EN) The manual includes technical data, drawings, procedures and detailed instructions needed to run autonomously repair and vehicle maintenance. Suitable for ...