

Nuclear Terrorism



Nuclear Materials and Disaster Research

Andrew Laseron

SNOVA

On Nuclear Terrorism

Graham Allison



On Nuclear Terrorism:

On Nuclear Terrorism Michael Levi, 2009-06-30 Nuclear terrorism is such a disturbing prospect that we shy away from its details Yet as a consequence we fail to understand how best to defeat it Michael Levi takes us inside nuclear terrorism and behind the decisions a terrorist leader would be faced with in pursuing a nuclear plot Along the way Levi identifies the many obstacles large and small that such a terrorist scheme might encounter allowing him to discover a host of ways that any plan might be foiled Surveying the broad universe of plots and defenses this accessible account shows how a wide ranging defense that integrates the tools of weapon and materials security law enforcement intelligence border controls diplomacy and the military can multiply intensify and compound the possibility that nuclear terrorists will fail Levi draws from our long experience with terrorism and cautions us not to focus solely on the most harrowing yet most improbable threats Nuclear terrorism shares much in common with other terrorist threats and as a result he argues defeating it is impossible unless we put our entire counterterrorism and homeland security house in order As long as we live in a nuclear age no defense can completely eliminate nuclear terrorism But this book reminds us that the right strategy can minimize the risks and shows us how to do it

Terrorism And Global Security Louis Rene Beres, 2019-07-09 The enormous potential for destruction that lies latent in nuclear technology inevitably gives rise to the possibility of nuclear terrorism the use of nuclear explosives or radioactivity by insurgent groups Professor Beres considers the factors that might foster such terrorism the forms it might take and the probable consequences of each form He then identifies a coherent strategy of counternuclear terrorism one that embraces both technological and behavioral measures that suggests policies for deterrence and situation management on both national and international levels and that points toward a major refashioning of world order

Nuclear Terrorism Graham Allison, 2004-08-09 But Allison does more than weave a tale of doom because his second proposition is that nuclear terrorism is preventable He outlines an ambitious but feasible strategy by which we can essentially eliminate the danger of nuclear terrorism

BOOK JACKET

Nuclear Terrorism Brecht Volders, Tom Sauer, 2016-03-02 This volume aims to improve understanding of nuclear security and the prevention of nuclear terrorism Nuclear terrorism is perceived as one of the most immediate and extreme threats to global security today While the international community has made important progress in securing fissile material there are still important steps to be made with nearly 2 000 metric tons of weapons usable nuclear material spread around the globe The volume addresses this complex phenomenon through an interdisciplinary approach legal criminal technical diplomatic cultural economic and political Despite this cross disciplinary approach however the chapters are all linked by the overarching aim of enhancing knowledge of nuclear security and the prevention of nuclear terrorism The volume aims to do this by investigating the different types of nuclear terrorism and subsequently discussing the potential means to prevent these malicious acts In addition there is a discussion of the nuclear security regime in general and an important examination of both its strengths

and weaknesses In summary the book aims to extend the societal and political debate about the threat of nuclear terrorism This book will be of much interest to students of nuclear proliferation nuclear governance terrorism studies international organizations and security studies in general Nuclear Terrorism Jonathan E. Medalia, Rensselaer W. Lee, Richard Baker, Carl E. Behrens, 2002 Many believe that terrorists could cause more deaths and destruction with nuclear weapons than by any other means The United States and the world community have tried for decades to avoid that spectre through the Nuclear Non proliferation Treaty of 1970 the Nuclear Non proliferation Act of 1978 P L 95 242 the Nunn Lugar Co operative Threat Reduction Program and many other measures Many have called the attention to the problem websites with current resources include the Nuclear Control Institute the Carnegie Endowment for International Peace and the centre for Non proliferation Studies In the wake of the September 11 attack the nuclear threat has taken a new urgency This book addresses potential terrorist capabilities **Nuclear Terrorism after 9/11** Robin M. Frost, 2020-10-28 The very mention of nuclear terrorism is enough to rouse strong reactions and understandably so because it combines the most terrifying weapons and the most threatening of people in a single phrase The possibility that terrorists could obtain and use nuclear weapons deserves careful analysis but discussion has all too often been contaminated with exaggeration even hysteria For example it has been claimed that nuclear terrorism poses an existential threat to the United States This Adelphi Paper develops a more measured analysis of the risk of terrorists detonating a true fission device The problem is attacked from two perspectives the considerable possibly insurmountable technical challenges involved in obtaining a functional nuclear weapon whether home made or begged borrowed or stolen from a state arsenal and the question of the strategic political and psychological motivations to go nuclear The conclusions are that nuclear terrorism is a less significant threat than is commonly believed and that among terrorists Muslim extremists are not the most likely to use nuclear weapons **Preventing Nuclear Terrorism** International Task Force on Prevention of Nuclear Terrorism, 1987 *Nuclear Terrorism* Graham Allison, 2024-06-04 A leading strategist opens our eyes to the greatest terrorist threat of all and how to prevent it before it is too late Americans in the twenty first century are keenly aware of the many forms of terrorism hijackings biological attacks chemical weapons But rarely do we allow ourselves to face squarely the deadliest form of terrorism because it is almost too scary to think about a terrorist group exploding a nuclear device in an American city In this urgent call to action Graham Allison one of America s leading experts on nuclear weapons and national security presents the evidence for two provocative compelling conclusions First if policy makers in Washington keep doing what they are currently doing about the threat a nuclear terrorist attack on America is likely to occur in the next decade And if one lengthens the time frame a nuclear strike is inevitable Second the surprising and largely unrecognized good news is that nuclear terrorism is in fact preventable In these pages Allison offers an ambitious but feasible blueprint for eliminating the possibility of nuclear terrorist attacks The United States once relied on the threat of mutually assured destruction to deter the Soviet Union from launching a nuclear

strike But in today s fragmented world a new strategy is needed especially with nuclear material vulnerable to theft or sale through black market channels The choice is ours to grab this beast by the horns or to be impaled on those horns We do not have the luxury of hoping the problem will go away and Allison shows why

Will Terrorists Go Nuclear? Brian Michael Jenkins,2009-12-02 For more than 30 years Jenkins has been advising the military government and prestigious think tanks on the dangers of nuclear proliferation Now he goes beyond what the experts know to examine how terrorists themselves think about such weapons

Nuclear Terrorism G. Cameron,1999-04-07 Will the twenty first century see terrorist fingers on the nuclear trigger How likely is it terrorists will obtain weapons of mass destruction What factors would determine their decision to use them Gavin Cameron assesses the causes for and implications of the escalating lethality of terrorism The growing opportunities for nuclear proliferation primarily arising from the collapse of the Soviet Union are explained The book concludes that the organisational and psychological pressures within terrorist groups and the changing nature of political violence combined with the heightened danger of nuclear micro proliferation have made mass destructive terrorism the greatest non traditional threat to international security in the world today

The Four Faces of Nuclear Terrorism Charles D. Ferguson,William C. Potter,2012-08-21 The Four Faces of Nuclear Terrorism a new book from the Center for Nonproliferation Studies assesses the motivations and capabilities of terrorist organizations to acquire and use nuclear weapons to fabricate and and detonate crude nuclear explosives to strike nuclear power plants and other nuclear facilities and to build and employ radiological weapons or dirty bombs

Preventing Catastrophic Nuclear Terrorism Charles D. Ferguson,2006 The United States and the international community must do more to prevent terrorists from buying stealing or building nuclear weapons Pakistans highly enriched uranium HEU is vulnerable to both external and insider theft by Islamic terrorists and Taliban sympathizers Russias massive HEU supplies are susceptible to insider theft a large portion of civilian nuclear material around the world remains in weapons usable form and Russias shorter range tactical nuclear weapons are highly attractive to terrorists because of their smaller size and ease of transport To address these vulnerabilities the United States should pursue unilateral initiatives such as a clear declaration of retaliation against regimes aiding nuclear terrorists multilateral initiatives that include increasing funding to the woefully underfunded International Atomic Energy Agency and bilateral initiatives and dialogue particularly with Pakistan and Russia Implementing these practical steps could significantly reduce the risk of a catastrophic nuclear attack by terrorist groups

When the Lights Go Out, and Never Come Back On ,1991-06 Identifies a variety of left and right wing groups in America which might have a reason to be active terrorists in the future A viable target for such groups is nuclear power plants

Nuclear Terrorism Paul Leventhal,Yonah Alexander,1986 Terroristers anvendelse af atomv ben er en d delig trussel Efterh nden som flere og flere labile stater erhverver sig nuklear viden og materialer vokser faren for at atomv ben kan falde i h nderne p terrorister og blive anvendt s vel nationalt som internationalt

Nuclear Terrorism Jonathan E. Medalia,Library of Congress. Congressional Research

Service,2005-10-01 It would be difficult for terrorists to mount a nuclear attack on a U S city but such an attack is plausible and would have catastrophic consequences in one scenario killing over a half million people and causing damage of over 1 trillion This report provides background on nuclear terrorist threats as of 2005 Contents 1 Threats Weapon Acquisition Weapon Delivery 2 Responses Threat Reduction Programs in the Former Soviet Union Efforts To Secure HEU Worldwide Control of Former Soviet and Other Borders Container Security Initiative Proliferation Security Initiative U S Border Security Supporting Capabilities 3 Options and Implications for U S Policy 4 Role of Congress This is a print on demand report

The Terrorist Effect: Weapons of Mass Disruption John R. Haygood,James William Jones,2011-08-12 This book provides a warning to the United States about the immanent dangers of a terrorist attack using radioactive materials Such materials are ubiquitous in our society and can be obtained from over 25 000 sources in the USA In this unsymmetrical war with terrorism the beneficial and life saving advantages of radioactive materials can be turned against us This book is intended to inform the reader of the dangers of terrorist attacks to show how attacks can be mounted and more importantly to indicate how the consequences of an attack can be mitigated Terrorist use fear as a weapon this book shows how an informed public can overcome our natural aversion to all things radioactive and fight back against the potentially paralyzing effects of such an attack

Nuclear Terrorism Robert W. Marrs,2004-09 Many policymakers and scholars contend that nuclear weapons remain inaccessible to terrorists and that nuclear means are inconsistent with or disproportionate to their goals Nevertheless the historical pattern of nuclear proliferation suggests a trend toward nonstate actor acquisition a notion supported by recent developments in the black market Additional evidence suggests that some specific groups have expressed an interest in nuclear weapons This thesis proposes that there is a terrorist demand for nuclear weapons Further its findings suggest that the possibility of terrorist acquisition has grown and that these nonstate adversaries will enjoy significant advantage over states during nuclear crisis Terrorists like states pursue political objectives and have similar concerns regarding power and security Lacking state resources terrorists employ instrumental targeting in pursuit of those objectives while remaining relatively invulnerable to retaliation This dynamic will encourage terrorists to acquire and exploit nuclear potential thereby overturning traditional theories of deterrence Wishful thinking about nuclear terrorism has discouraged thoughtful analysis of this dilemma The prospect is sufficiently dire that a preventive campaign must be launched to stop terrorist acquisition of nuclear capabilities Policymakers must also prepare for the possible failure of preventive efforts and search for options that may mitigate nuclear terrorism

Nuclear Terrorism after 9/11 Robin M. Frost,2020-10-28 The very mention of nuclear terrorism is enough to rouse strong reactions and understandably so because it combines the most terrifying weapons and the most threatening of people in a single phrase The possibility that terrorists could obtain and use nuclear weapons deserves careful analysis but discussion has all too often been contaminated with exaggeration even hysteria For example it has been claimed that nuclear terrorism poses an existential threat to the United States This Adelphi Paper develops a more

measured analysis of the risk of terrorists detonating a true fission device The problem is attacked from two perspectives the considerable possibly insurmountable technical challenges involved in obtaining a functional nuclear weapon whether home made or begged borrowed or stolen from a state arsenal and the question of the strategic political and psychological motivations to go nuclear The conclusions are that nuclear terrorism is a less significant threat than is commonly believed and that among terrorists Muslim extremists are not the most likely to use nuclear weapons

Motivations for Nuclear Terrorism in the United States Peter Joseph DiPaolo, 1995 The demise of bipolarity created new security concerns for the United States Terrorism now thrives in the new world environment While much has been written on terrorism the specter of nuclear terrorism in the United States has received little attention Nuclear terrorism cannot be looked at through the traditional nuclear weapons paradigm nor can it be viewed within the confines of the traditional terrorism paradigm There currently are two perspectives on nuclear terrorism the optimists who do not see it as a threat and the pessimists who see it as inevitable Each view has its merits but neither alone can explain this security concern Merging of the two views is required to understand the motivational considerations behind this potentially horrific problem A brief history of U S policies on nuclear weapons and terrorism is offered to explain why there has not been a U S policy on nuclear terrorism The possibility of nuclear terrorism is real A better understanding of the nuclear terrorist mindset is required if effective policies are to be developed

Deterring State Sponsorship of Nuclear Terrorism Michael A. Levi, 2008 The basis of nuclear doctrine during the Cold War was deterrence Nuclear powers were deterred from attacking each other by the fear of retaliation Today much of the concern over possible nuclear attack comes in the context of rogue states and terrorism And since only states are known to possess nuclear weapons an important question is how to deter them from letting terrorists acquire a device whether through an authorized transfer or a security breach Michael A Levi analyzes this aspect of deterrence in the post Cold War world as well as what to do if deterrence breaks down He suggests how to discourage states from giving weapons or nuclear materials to terrorists and how to encourage states to bolster security against any accidental transfer The report also discusses the role of nuclear attribution the science of identifying the origin of nuclear materials in deterring transfers an essential link in assigning responsibility to governments for transfers of nuclear materials Deterring State Sponsorship of Nuclear Terrorism offers thoughtful analysis and practical guidelines for U S policy on a complex and important question and makes an important contribution to the thinking in an underexplored but unavoidable area of the post Cold War security debate

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On Nuclear Terrorism Introduction

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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