

Remotely Overseeing the Use of Nuclear Reactors with Antineutrinos



Nuclear reactors are essential sources of energy in many countries around the world



However, they can also be used to produce materials for nuclear weapons

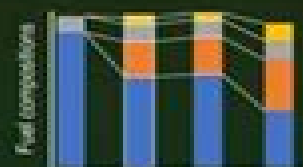
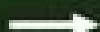
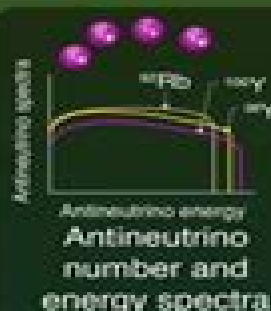
Their activity needs to be monitored

Remote real-time monitoring of nuclear reactors using antineutrinos

Antineutrino emissions



Measuring equipment



Determination of fuel burnup and fissile product composition



Good agreement with experimental data for light-water reactors



Reveals operational status, burnup, and fuel composition of the reactor



Powerful tool for ensuring adherence to nuclear energy policies



Computational scheme based on gross theory of β -decay

The proposed approach is promising for the prevention of uncontrollable nuclear proliferation

Reactor antineutrinos and novel application to real-time remote monitoring of nuclear reactors

Ishizuka et al. (2023) | *Journal of Nuclear Science and Technology* | 10.1080/00223131.2023.2276418



東京工業大学
Tokyo Institute of Technology

Nuclear Weapons And Scientific Responsibility

Christopher Gregory Weeramantry



Nuclear Weapons And Scientific Responsibility:

Nuclear Weapons and Scientific Responsibility C.G. Weeramantry, 2021-10-11 Several years ago when this work first appeared it had become apparent that scientists who play such a key role in the nuclear enterprise needed to be alerted to the many questions of conscience and legality that were inextricably interlinked with their work These questions lay at the heart of the nuclear weapons problem for whatever the political and military leaders might ordain the manufacture of such weapons was a plain impossibility without the active assistance of the scientific profession Yet no substantive work on this topic had until then been attempted Such a work appeared at that time to be an urgent and important need If the problem was then acute and serious it is even more so now The power of nuclear science has grown and with it has grown the power of the individual scientist to initiate new developments The changes in the world order that have occurred in the intervening years enable individual scientists to hold themselves out as available for employment Those who seek their expertise may include not only governments but other entities as well The power of global destruction that these scientists command renders it imperative that they be alerted on a continuing basis to the problems of conscience that arise Hence the need for a re issue of this work for which there had been many requests from concerned scientists professional groups socially concerned organisations and also from lawyers The book is re issued in its original form but updated by the inclusion of more recent work as contained in extracts from three judicial opinions upon the matter

Nuclear Weapons and Scientific Responsibility Christopher Gregory Weeramantry, 1999 *Nuclear Weapons and Scientific Responsibility* Christopher Gregory Weeramantry (jurist), 1999 [Social Responsibility in Science, Technology, and Medicine](#) Paul T. Durbin, 1992 Not everyone agrees that professionals including academic philosophers need to be actively engaged in this fashion So another theme throughout is an argument against non engaged philosophers non engaged scientists and other non engaged professionals The social problems of a technological society are manifest The book attempts to show in a scholarly way how they might be addressed effectively Jacket

Nuclear Weapons, Scientists, and the Post-Cold War Challenge Sidney David Drell, 2007 This volume includes a representative selection of Sidney Drell's recent writings and speeches circa 1993 to the present on public policy issues with substantial scientific components Most of the writings deal with national security nuclear weapons and arms control and reflect the author's personal involvement in such issues dating back to 1960 Fifteen years after the demise of the Soviet Union the gravest danger presented by nuclear weapons is the spread of advanced technology that may result in the proliferation of nuclear weapons Of most concern would be their acquisition by hostile governments and terrorists who are unconstrained by accepted norms of civilized behavior The current challenges are to prevent this from happening and at the same time to pursue aggressively the opportunity to escape from an outdated nuclear deterrence trap

[The Responsibility of Science](#) Harald A. Mieg, 2022-06-28 This open access book provides an overview of issues of scientific responsibility The volume comprises three types of contributions first analyses of the

responsibility of science second analyses of the structural conditions for science and its responsibility and third normative versions of scientific responsibility The questions and problems dealt with include science as a profession ambivalence of research and dual use innovation vs precaution notions of responsibility the role of science within society and its relation to human rights as well as scientific and public discourses The book addresses scholars in the fields of Science Studies and Research Policy This is an open access book **American Scientists and Nuclear Weapons Policy** Robert G.

Gilpin,2015-12-08 As this study traces the history of the dramatic intra scientific conflict over nuclear weapons which has developed since World War II it analyzes the politically relevant ideas attitudes and behavior of those scientists who have been influential in the formulation of American policy toward nuclear weapons The author contends that the emergence of the scientist into the mainstream of American political life is one of the great events of our history As he assays the situation he emphasizes the growing need for effective measures for integrating scientist advisers into national policy making processes This well documented book will be of lasting value to both scientists and public administrators and it will be of vital interest to all concerned with current problems of the nuclear era Originally published in 1962 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

Dual Use Science and Technology, Ethics and Weapons of Mass Destruction Seumas Miller,2018-05-22 This book deals with the problem of dual use science research and technology It first explains the concept of dual use and then offers analyses of collective knowledge and collective ignorance It goes on to present a theory of collective responsibility followed by four chapters focusing on a particular scientific field or industry of dual use concern the chemical industry the nuclear industry cyber technology and the biological sciences The problem of dual use science research and technology arises because such research and technology has the potential to be used for great evil as well as for great good On the one hand knowledge is a necessary condition and perhaps a constitutive feature of technologies that contribute greatly to individual and collective well being Consider for example nuclear technology that enables the generation of low cost electricity in populations without obvious alternative energy sources So technological knowledge is a good thing and ignorance of it a bad thing On the other hand these same technologies can be extremely harmful to individuals and collectives as with the atomic bombs dropped on Hiroshima and Nagasaki So at least with respect to some technologies evidently knowledge is a bad thing and ignorance a good thing Accordingly the question arises as to whether we ought to limit scientific research and or the development of technology and if so which research or technology in what manner and to what extent This book examines the answer to that question **First Use of Nuclear Weapons, Preserving Responsible Control** United States.

Congress. House. Committee on International Relations. Subcommittee on International Security and Scientific Affairs, 1976

The Risk of Skilled Scientist Radicalization and Emerging Biological Warfare Threats Maurizio Martellini, Jason Rao, 2017-10-15 Skilled scientists are not immune to the appeal of terrorist groups indeed recent studies indicate that engineers and medical doctors are over represented within terrorist organizations Also of particular concern with regard to the potential radicalization of scientists is the issue of the lone wolf an individual who prepares and commits violence alone outside of any command structure and without material assistance from any group This book presents papers from the NATO Advanced Research Workshop ARW entitled The Risk of Skilled Scientist Radicalization and Emerging Biological Warfare Threats held in Como Italy from 29 November to 2 December 2016 The aim of this ARW was to assess the risks surrounding the ability of radical terrorist groups to recruit highly skilled scientists The ARW was unique in that it brought together acknowledged experts from the social science community and the scientific technical community to discuss their perspectives on the risk of radicalization of chemical biological radiological and nuclear CBRN skilled scientists Countering terrorist organizations requires a comprehensive approach characterized by international cooperation across the military intelligence policy making and scientific communities The book provides an overview of the situation as well as recommendations for how such cooperation can be achieved and will be of interest to all those involved in the counter terrorism process

The Top Books of the Year Nuclear Weapons And Scientific Responsibility The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Nuclear Weapons And Scientific Responsibility : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Nuclear Weapons And Scientific Responsibility : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Nuclear Weapons And Scientific Responsibility

1. Understanding the eBook Nuclear Weapons And Scientific Responsibility
 - The Rise of Digital Reading Nuclear Weapons And Scientific Responsibility
 - Advantages of eBooks Over Traditional Books
2. Identifying Nuclear Weapons And Scientific Responsibility
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nuclear Weapons And Scientific Responsibility
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nuclear Weapons And Scientific Responsibility
 - Personalized Recommendations
 - Nuclear Weapons And Scientific Responsibility User Reviews and Ratings
 - Nuclear Weapons And Scientific Responsibility and Bestseller Lists
5. Accessing Nuclear Weapons And Scientific Responsibility Free and Paid eBooks
 - Nuclear Weapons And Scientific Responsibility Public Domain eBooks
 - Nuclear Weapons And Scientific Responsibility eBook Subscription Services
 - Nuclear Weapons And Scientific Responsibility Budget-Friendly Options
6. Navigating Nuclear Weapons And Scientific Responsibility eBook Formats
 - ePub, PDF, MOBI, and More
 - Nuclear Weapons And Scientific Responsibility Compatibility with Devices
 - Nuclear Weapons And Scientific Responsibility Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nuclear Weapons And Scientific Responsibility
 - Highlighting and Note-Taking Nuclear Weapons And Scientific Responsibility
 - Interactive Elements Nuclear Weapons And Scientific Responsibility
8. Staying Engaged with Nuclear Weapons And Scientific Responsibility

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Nuclear Weapons And Scientific Responsibility
- 9. Balancing eBooks and Physical Books Nuclear Weapons And Scientific Responsibility
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nuclear Weapons And Scientific Responsibility
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nuclear Weapons And Scientific Responsibility
 - Setting Reading Goals Nuclear Weapons And Scientific Responsibility
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nuclear Weapons And Scientific Responsibility
 - Fact-Checking eBook Content of Nuclear Weapons And Scientific Responsibility
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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