

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

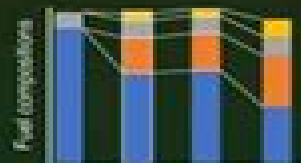
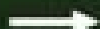
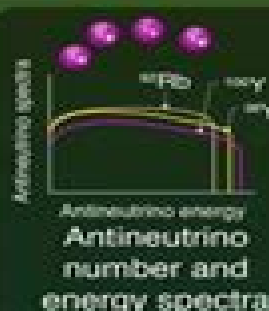
Their activity needs to be monitored

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



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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 (jurist), 1999

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

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

Nuclear Weapons and Scientific Responsibility Christopher Gregory Weeramantry,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 **First Use of Nuclear Weapons, Preserving Responsible Control** United States. Congress. House. Committee on International Relations. Subcommittee on International Security and Scientific Affairs,1976 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

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

The Responsible Scientist John Forge, 2008-11-09 When Fat Boy the first atomic bomb was detonated at Los Alamos New Mexico in 1945 moral responsibility in science was forever thrust into the forefront of philosophical debate The culmination of the famed Manhattan Project which employed many of the world's best scientific minds was a singular event that signaled a new age of science for power and profit and the monumental responsibility that these actions entailed Today the drive for technological advances in areas such as pharmaceuticals biosciences communications and the defense industry channels the vast majority of scientific endeavor into applied research In *The Responsible Scientist* John Forge examines the challenges of social moral and legal responsibility faced by today's scientists Focusing on moral responsibility Forge argues that scientists have a responsibility not to do work that has harmful outcomes and that they are encouraged to do work that prevents harm Scientists also have a backward looking responsibility whereby they must prevent wrongful outcomes and omissions that they are in a position to foresee Forge presents a broad overview of many areas of scientific endeavor citing the responsibility of corporations employees and groups of scientists as judged by the values of science and society's appraisals of actions and outcomes He maintains that ultimate responsibility lies in the hands of the individual the responsible scientist who must exhibit the diligence and foresight to anticipate the use and abuse of his or her work

An Inquirer's Guide to Ethics in AI Matthew S.W. Silk, Ian J. MacDonald, 2024-11-01 Pulling from ethics computer science philosophy of science and history this book offers a series of investigative tools to enable readers to establish interdisciplinary connections and explore ethical issues involving artificial intelligence Covering broad themes including democracy and the moral responsibility of scientists the text also delves into specific topics such as modelling bias risk assessment privacy epistemic concerns the application of AI to medicine the uses of generative AI for writing and art and the impact that AI can have on human behavior Throughout the book the application of various ethical theories and investigative tools are modelled for students helping them to become thoughtful inquirers in the exciting and growing field of artificial intelligence

[Banning the Bomb](#) Siddharth Mallavarapu, 2007

Justice Without Frontiers C.G. Weeramantry, 2023-12-11 This work an important bridge between the worlds of science and law is one of a series but may be purchased separately It is one of the most detailed studies thus far on the interrelationship of science and technology with the growing discipline of human rights Apart from general perspectives it also deals specifically with the obligations of doctors engineers nuclear scientists computer technologists genetic engineers genetic counsellors mining technologists and others No library of science medicine engineering or technology of any description should be without it for it provides an irreducible minimum of human rights knowledge without which these disciplines cannot function in the next century with due regard to their social and human rights implications Not all scientists will agree with all the author's views but he poses them challengingly and brings into the open a number of major issues which can no longer be ignored The volume is a plea for an

interdisciplinary and broad based approach to scientific problems scientific education and continuing education of scientists It places the scientific endeavour in its overall social and human rights context in a manner which neither students of science nor established scientists can ignore With an approach which is both imaginative and practical it explores the future of scientific endeavour in a humanistic perspective Responsible Management of Information Systems Bernd Carsten Stahl,2004-01-01 This book discusses how information systems can be used and managed in a responsible manner according to a theory that emphasizes the central characteristics of responsibility which is then applied to normative problems in information systems It is shown that with the use of this theory the central moral and legal problems of information systems such as privacy or intellectual property can be successfully addressed Provided by publisher Science, Freedom, Democracy Péter Hartl,Adam Tamas Tuboly,2021-03-21 This book addresses the complex relationship between the values of liberal democracy and the values associated with scientific research The chapters explore how these values mutually reinforce or conflict with one another in both historical and contemporary contexts The contributors utilize various approaches to address this timely subject including historical studies philosophical analysis and sociological case studies The chapters cover a range of topics including academic freedom and autonomy public control of science the relationship between scientific pluralism and deliberative democracy lay expert relations in a democracy and the threat of populism and autocracy to scientific inquiry Taken together the essays demonstrate how democratic values and the epistemic and non epistemic values associated with science are interconnected Science Freedom Democracy will be of interest to scholars and graduate students working in philosophy of science history of philosophy sociology of science political philosophy and epistemology **Dictionary of Christianity and Science** Zondervan,2017-04-25 The definitive reference work on science and Christian belief How does Christian theology relate to scientific inquiry What are the competing philosophies of science and do they work with a Christian faith based on the Bible No reference work has covered this terrain sufficiently until now Featuring entries from over 140 international contributors the Dictionary of Christianity and Science is a deeply researched peer reviewed fair minded work that illuminates the intersection of science and Christian belief In one volume you get reliable summaries and critical analyses of over 450 relevant concepts theories terms movements individuals and debates You will find answers to your toughest questions about faith and science from the existence of Adam and Eve to the age of the earth evolution and string theory FEATURES INCLUDE Over 450 entries that will help you think through some of today s most challenging scientific topics including climate change evolution bioethics and much more Essays from over 140 leading international scholars including Francis Beckwith Michael Behe Darrell Bock William Lane Craig Hugh Ross Craig Keener Davis Young John Walton and many more Multiple view essays on controversial topics allow you to understand and compare differing Christian viewpoints Learn about flesh and blood figures who have shaped the interaction of science and religion Augustine Aquinas Bacon Darwin and Stephen Hawking are just the beginning Fully cross referenced entries include

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Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination

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