

RED ATOM

Russia's Nuclear Power Program from Stalin to Today



Paul R. Josephson

Red Atom Russias Nuclear Power Program

Robert R. Redfield



Red Atom Russias Nuclear Power Program:

Red Atom Paul Josephson, 2005-06-10 In the 1950s Soviet nuclear scientists and leaders imagined a stunning future when giant reactors would generate energy quickly and cheaply nuclear engines would power cars ships and airplanes and peaceful nuclear explosions would transform the landscape Driven by the energy of the atom the dream of communism would become a powerful reality Thirty years later that dream died in Chernobyl What went wrong Based on exhaustive archival research and interviews **Red Atom** takes a behind the scenes look at the history of the Soviet Union's peaceful use of nuclear power It explores both the projects and the technocratic and political elite who were dedicated to increasing state power through technology And it describes the political economic and environmental fallout of Chernobyl A story of big science run amok **Red Atom** illuminates the problems that can befall any society heavily invested in large scale technology **Red Atom** Paul R. Josephson, 2005 Reveals the history and death of the Soviet Union's peaceful use of nuclear power through exploration of both the projects and the technocratic and political elite who were dedicated to increasing state power through technology Paul Josephson illuminates the problems that can befall any society heavily invested in large scale technology **The National Politics of Nuclear Power** Benjamin K. Sovacool, Scott V. Valentine, 2012 This book offers a comprehensive assessment of the dynamics driving and constraining nuclear power development in Asia Europe and North America providing detailed comparative analysis The book formulates a theory of nuclear socio political economy which highlights six factors necessary for embarking on nuclear power programs 1 national security and secrecy 2 technocratic ideology 3 economic interventionism 4 a centrally coordinated energy stakeholder network 5 subordination of opposition to political authority and 6 social peripheralization The book validates this theory by confirming the presence of these six drivers during the initial nuclear power developmental periods in eight countries the United States France Japan Russia the former Soviet Union South Korea Canada China and India The authors then apply this framework as a predictive tool to evaluate contemporary nuclear power trends They discuss what this theory means for developed and developing countries which exhibit the potential for nuclear development on a major scale and examine how the new renaissance of nuclear power may affect the promotion of renewable energy global energy security and development policy as a whole The volume also assesses the influence of climate change and the recent nuclear accident in Fukushima Japan on the nuclear power industry's trajectory This book will be of interest to students of energy policy and security nuclear proliferation international security global governance and IR in general *Atoms and Ashes* Serhii Plokhyy, 2022-05-17 A chilling account of more than half a century of nuclear catastrophes by the author of the definitive Economist Cold War history *Nuclear Folly* Almost 145 000 Americans fled their homes in and around Harrisburg Pennsylvania in late March 1979 hoping to save themselves from an invisible enemy radiation The reactor at the nearby Three Mile Island nuclear power plant had gone into partial meltdown and scientists feared an explosion that could spread radiation throughout the eastern United States Thankfully the explosion

never took place but the accident left deep scars in the American psyche all but ending the nation's love affair with nuclear power In *Atoms and Ashes* Serhii Plokhyy recounts the dramatic history of Three Mile Island and five more accidents that have dogged the nuclear industry in its military and civil incarnations the disastrous fallout caused by the testing of the hydrogen bomb in the Bikini Atoll in 1954 the Kyshtym nuclear disaster in the USSR which polluted a good part of the Urals the Windscale fire the worst nuclear accident in the UK's history back to the USSR with Chernobyl the result of a flawed reactor design leading to the exodus of 350 000 people and most recently Fukushima in Japan triggered by an earthquake and a tsunami a disaster on a par with Chernobyl and whose clean up will not take place in our lifetime Through the stories of these six terrifying incidents Plokhyy explores the risks of nuclear power both for military and peaceful purposes while offering a vivid account of how individuals and governments make decisions under extraordinary circumstances Today there are 440 nuclear reactors operating throughout the world with nuclear power providing 10 percent of global electricity Yet as the world seeks to reduce carbon emissions to combat climate change the question arises Just how safe is nuclear energy

Red Prometheus Dolores L. Augustine, 2007 This analysis of the relationship between science and totalitarian rule in one of the most technically advanced countries in the East bloc examines professional autonomy under dictatorship and the place of technology in Communist ideology In Cold War era East Germany the German tradition of science based technology merged with a socialist system that made technological progress central to its ideology Technology became an important part of East German socialist identity crucial to how Communists saw their system and how citizens saw their state In *Red Prometheus* Dolores Augustine examines the relationship between a dictatorial system and the scientific and engineering communities in East Germany from the end of the Second World War through the 1980s Drawing on newly opened archives and extensive interviews Augustine looks in detail at individual scientists' interactions with the East German system examining the effectiveness of their resistance against the party's totalitarian impulses She explains why many German scientists and engineers who were deported to the Soviet Union after World War II returned to East Germany rather than defecting to the capitalist West traces scientists' attempts to hold on to some aspects of professional autonomy and describes challenges to their professional identity on the factory floor Augustine examines the quality of science and technology produced under Communist rule looking at failed research projects and clashing cultures of innovation She looks at technological myth building in science fiction and propaganda She explores individual career strategies including the role played by gender in high tech professions and the ways that both enterprises and individuals responded to increasing state and party control of research during the 1980s We cannot understand the economic choices made by East Germany Augustine argues unless we understand the cultural values reflected in the East German belief in technology as indispensable to progress and industrial development

The Economic History of Nuclear Energy in Spain M.d.Mar Rubio-Varas, Joseba De la Torre, 2017-11-10 This book analyses the economic history of the nuclear program in Spain from its

inception in the 1950s to the nuclear moratorium in the early 1980s and investigates the economic financial and business origins of atomic energy in Spain The actual dimension of the Spanish nuclear sector which exceeded the relative economic and political clout of the country at the time reflects the combination of domestic and foreign interests Each contribution inserts the Spanish case within the international development of nuclear energy but also shows how the Spanish nuclear program came about how it was financed and who the main architects and beneficiaries at the industrial financial commercial and banking levels were all without losing sight of the energy policy aspects such as energy mix and energy security The volume provides useful analysis and sources for a variety of core fields across the social sciences including economic history of post war Europe industrial and energy policy international relations and history of technology

Nuclear Power Reactor Designs Jun Wang, Sola Talabi, Sama Bilbao y Leon, 2023-12-01 Nuclear Power Reactor Designs From History to Advances analyzes nuclear designs throughout history and explains how each of those has helped to shape and inform the nuclear reactor designs of today and the future Focused on the structure systems and relevant components of each reactor design this book provides the readers with answers to key questions to help them understand the benefits of each design Each reactor design is introduced their origin defined and the relevant research presented before an analysis of its successes what was learned and how research and technology advanced as a result are presented Students researchers and early career engineers will gain a solid understanding of how nuclear designs have evolved and how they will continue to develop in the future Presents reactor designs through history to present day focusing on key structures systems and components Provides readers with quick answers about various design principles and rationales Includes new approaches such as the micro reactor and small modular reactors *Being Nuclear* Gabrielle Hecht, 2014-08-29 The hidden history of African uranium and what it means for a state an object an industry a workplace to be nuclear Uranium from Africa has long been a major source of fuel for nuclear power and atomic weapons including the bomb dropped on Hiroshima In 2003 after the infamous yellow cake from Niger Africa suddenly became notorious as a source of uranium a component of nuclear weapons But did that admit Niger or any of Africa's other uranium producing countries to the select society of nuclear states Does uranium itself count as a nuclear thing In this book Gabrielle Hecht lucidly probes the question of what it means for something a state an object an industry a workplace to be nuclear Hecht shows that questions about being nuclear a state that she calls nuclearity lie at the heart of today's global nuclear order and the relationships between developing nations often former colonies and nuclear powers often former colonizers Hecht enters African nuclear worlds focusing on miners and the occupational hazard of radiation exposure Could a mine be a nuclear workplace if as in some South African mines its radiation levels went undetected and unmeasured With this book Hecht is the first to put Africa in the nuclear world and the nuclear world in Africa By doing so she remakes our understanding of the nuclear age *Well-Oiled Diplomacy* Adam N. Stulberg, As a window into understanding the relationship between globalization and the pursuit of national security Adam N

Stulberg examines Russia's mixed success at leveraging energy advantages in Eurasia from 1992 to 2002. Stulberg supplements traditional analyses of statecraft by highlighting indirect market and regulatory mechanisms for altering the behavior of foreign and subnational actors as well as by demonstrating the usability of soft power and global networks. The power of this new theory of strategic manipulation is illustrated in several case studies including Russia's successful natural gas diplomacy toward Turkmenistan and Kazakhstan, Russia's troubled oil diplomacy toward Azerbaijan and Kazakhstan, and Russia's mixed success with commercial nuclear diplomacy toward Kyrgyzstan and Kazakhstan.

Meeting the Demands of Reason Jay Bergman, 2011-03-15 The Soviet physicist dissident and human rights activist Andrei Sakharov (1921-1989) was awarded the Nobel Peace Prize in 1975. The first Russian to have been so recognized, Sakharov in his Nobel lecture held that humanity had a sacred endeavor to create a life worthy of its potential that we must make good the demands of reason by confronting the dangers threatening the world both then and now: nuclear annihilation, famine, pollution, and the denial of human rights. *Meeting the Demands of Reason* provides a comprehensive account of Sakharov's life and intellectual development, focusing on his political thought and the effect his ideas had on Soviet society. Jay Bergman places Sakharov's dissidence squarely within the ethical legacy of the nineteenth-century Russian intelligentsia inculcated by his father and other family members from an early age. In 1948, one year after receiving his doctoral candidate's degree in physics, Sakharov began work on the Soviet hydrogen bomb and later received both the Stalin and the Lenin prizes for his efforts. Although as a nuclear physicist he had firsthand experience of honors and privileges inaccessible to ordinary citizens, Sakharov became critical of certain policies of the Soviet government in the late 1950s. He never renounced his work on nuclear weaponry but eventually grew concerned about the environmental consequences of testing and feared unrestrained nuclear proliferation. Bergman shows that these issues led Sakharov to see the connection between his work in science and his responsibilities to the political life of his country. In the late 1960s, Sakharov began to condemn the Soviet system as a whole in the name of universal human rights. By the 1970s, he had become with Alexander Solzhenitsyn the most recognized Soviet dissident in the West, which afforded him a measure of protection from the authorities. In 1980, however, he was exiled to the closed city of Gorky for protesting the Soviet invasion of Afghanistan. In 1986, the new Gorbachev regime allowed him to return to Moscow, where he played a central role as both supporter and critic in the years of perestroika. Two years after Sakharov's death, the Soviet Union collapsed, and in the courageous example of his unyielding commitment to human rights skillfully recounted by Bergman, Sakharov remains an enduring inspiration for all those who would tell truth to power.

Fact and Fiction in Global Energy Policy Benjamin K. Sovacool, Marilyn A. Brown, Scott V. Valentine, 2016-04-29 A balanced examination of global energy issues, energy sustainability, and climate change are two of the greatest challenges facing humankind. Unraveling these complex and interconnected issues demands careful and objective assessment. *Fact and Fiction in Global Energy Policy* aims to change the prevailing discourse by examining fifteen core energy questions from a variety of

perspectives demonstrating how for each of them no clear cut answer exists Is industry the chief energy villain Can we sustainably feed and fuel the planet at the same time Is nuclear energy worth the risk Should geoengineering be outlawed Touching on pollution climate mitigation and adaptation energy efficiency government intervention and energy security the authors explore interrelated concepts of law philosophy ethics technology economics psychology sociology and public policy This book offers a much needed critical appraisal of the central energy technology and policy dilemmas of our time and the impact of these on multiple stakeholders

The Wretched Atom Jacob Darwin Hamblin, 2021 Written by a prize winning historian The Wretched Atom is an authoritative history and a sweeping indictment of so called peaceful nuclear technologies in the countries of the developing world

Eurasian Environments Nicholas Breyfogle, 2018-11-06 Through a series of essays Eurasian Environments prompts us to rethink our understanding of tsarist and Soviet history by placing the human experience within the larger environmental context of flora fauna geology and climate This book is a broad look at the environmental history of Eurasia specifically examining steppe environments hydraulic engineering soil and forestry water pollution fishing and the interaction of the environment and disease vectors Throughout the authors place the history of Imperial Russia and the Soviet Union in a trans chronological comparative context seamlessly linking the local and the global The chapters are rooted in the ecological and geological specificities of place and community while unveiling the broad patterns of human nature relationships across the planet Eurasian Environments brings together an international group scholars working on issues of tsarist Soviet environmental history in an effort to showcase the wave of fascinating and field changing research currently being written

Essays on Twentieth-Century History Michael Adas, American Historical Association, 2010-05-28 Probing the paradoxes of the long twentieth century Unprecedented human opportunity and deprivation to the rise of the United States as a hegemon

The Soviet Sixties Robert Hornsby, 2023-09-26 The story of a remarkable era of reform controversy optimism and Cold War confrontation in the Soviet Union Beginning with the death of Stalin in 1953 the sixties era in the Soviet Union was just as vibrant and transformative as in the West The ideological romanticism of the revolutionary years was revived with renewed emphasis on egalitarianism equality and the building of a communist utopia Mass terror was reined in great victories were won in the space race Stalinist cultural dogmas were challenged and young people danced to jazz and rock and roll Robert Hornsby examines this remarkable and surprising period showing that even as living standards rose aspects of earlier days endured Censorship and policing remained tight and massacres during protests in Tbilisi and Novocherkassk alongside invasions of Hungary and Czechoslovakia showed the limits of reform The rivalry with the United States reached perhaps its most volatile point friendship with China turned to bitter enmity and global decolonization opened up new horizons for the USSR in the developing world These tumultuous years transformed the lives of Soviet citizens and helped reshape the wider world

Toxicants, Health and Regulation since 1945 Nathalie Jas, Soraya Boudia, 2015-10-06 The number of substances potentially dangerous to our health and environment

is constantly increasing The papers in this volume examine the concurrent rise of pollutants and the regulations designed to police their use *Science and Technology in World History* William E. Burns,2020-02-07 This encyclopedia offers an interdisciplinary approach to studying science and technology within the context of world history With balanced coverage a logical organization and in depth entries readers of all inclinations will find useful and interesting information in its contents *Science and Technology in World History* takes a truly global approach to the subjects of science and technology and spans the entirety of recorded human history Topical articles and entries on the subjects are arranged under thematic categories which are divided further into chronological periods This format along with the encyclopedia s integrative approach offers an array of perspectives that collectively contribute to the understanding of numerous fields across the world and over eras of development Entries cover discussions of scientific and technological innovations and theories historical vignettes and important texts and individuals throughout the world From the discovery of fire and the innovation of agricultural methods in China to the establishment of surgical practices in France and the invention of Quantum Theory this encyclopedia offers comprehensive coverage of fascinating topics in science and technology through a straightforward historical lens **The Cambridge History of Russia: Volume 3, The Twentieth Century** Maureen Perrie,Ronald Grigor Suny,2006-11-02 A major history of twentieth century Russia by leading scholars in the field **The Power of Systems** Eglė Rindzevičiūtė,2016-12-15 In *The Power of Systems* Eglė Rindzevičiūtė introduces readers to one of the best kept secrets of the Cold War the International Institute of Applied Systems Analysis IIASA an international think tank established by the US and USSR to advance scientific collaboration From 1972 until the late 1980s IIASA was one of the very few permanent platforms where policy scientists from both sides of the Cold War could work together to articulate and solve world problems A rare zone of freedom communication and negotiation East West scientists co produced computer simulations of the long term world future using global modeling to explore the possible effects of climate change and nuclear winter Their concern with global issues also became a vehicle for transformation inside the Soviet Union *The Power of Systems* explores how computer modeling cybernetics and the systems approach challenged Soviet governance by undermining the linear notions of control on which Soviet governance was based and creating new objects and techniques of government *Knowledge and Power* William Burns,2018-07-06 *Knowledge and Power* presents and explores science not as something specifically for scientists but as an integral part of human civilization and traces the development of science through different historical settings from the Middle Ages through to the Cold War Five case studies are examined within this book the creation of modern science by Muslims Christians and Jews in the medieval Mediterranean the global science of the Jesuit order in the early modern world the relationship between modernization and westernization in Russia and Japan from the late seventeenth to the mid nineteenth century the role of science in the European colonization of Africa and the rivalry in big science between the United States and the Soviet Union during the Cold War Each chapter includes original documents to further the reader s

understanding and this second edition has been enhanced with a selection of new images and a new chapter on Big Science and the Superpowers during the Cold War Since the Middle Ages people have been working in many civilizations and cultures to advance knowledge of and power over the natural world Through a combination of narrative and primary sources Knowledge and Power provides students with an understanding of how different cultures throughout time and across the globe approached science It is ideal for students of world history and the history of science

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