

History of Modern Physical Sciences – Volume 2

# **STALIN'S GREAT SCIENCE**

## **The Times and Adventures of Soviet Physicists**

**Alexei B Kojevnikov**

Imperial College Press



# Stalins Great Science The Times And Adventures Of Soviet Physicists

**Alexei B Kojevnikov**



## **Stalins Great Science The Times And Adventures Of Soviet Physicists:**

Stalin's Great Science A. B. Kozhevnikov, 2004 World class science and technology developed in the Soviet Union during Stalin's dictatorial rule under conditions of political violence lack of international contacts and severe restrictions on the freedom of information Stalin's Great Science The Times and Adventures of Soviet Physicists is an invaluable book that investigates this paradoxical success by following the lives and work of Soviet scientists including Nobel Prize winning physicists Kapitza Landau and others throughout the turmoil of wars revolutions and repression that characterized the first half of Russia's twentieth century The book examines how scientists operated within the Soviet political order communicated with Stalinist politicians built a new system of research institutions and conducted groundbreaking research under extraordinary circumstances Some of their novel scientific ideas and theories reflected the influence of Soviet ideology and worldview and have since become accepted universally as fundamental concepts of contemporary science In the process of making sense of the achievements of Soviet science the book dismantles standard assumptions about the interaction between science politics and ideology as well as many dominant stereotypes mostly inherited from the Cold War about Soviet history in general Science and technology were not only granted unprecedented importance in Soviet society but they also exerted a crucial formative influence on the Soviet political system itself Unlike most previous studies Stalin's Great Science recognizes the status of science as an essential element of the Soviet polity and explores the nature of a special relationship between experts scientists and engineers and communist politicians that enabled the initial rise of the Soviet state and its mature accomplishments until the pact eroded in later years undermining the communist regime from within

**Stalin's Great Science: The Times And Adventures Of Soviet Physicists** Alexei B Kojevnikov, 2004-08-23 World class science and technology developed in the Soviet Union during Stalin's dictatorial rule under conditions of political violence lack of international contacts and severe restrictions on the freedom of information Stalin's Great Science The Times and Adventures of Soviet Physicists is an invaluable book that investigates this paradoxical success by following the lives and work of Soviet scientists including Nobel Prize winning physicists Kapitza Landau and others throughout the turmoil of wars revolutions and repression that characterized the first half of Russia's twentieth century The book examines how scientists operated within the Soviet political order communicated with Stalinist politicians built a new system of research institutions and conducted groundbreaking research under extraordinary circumstances Some of their novel scientific ideas and theories reflected the influence of Soviet ideology and worldview and have since become accepted universally as fundamental concepts of contemporary science In the process of making sense of the achievements of Soviet science the book dismantles standard assumptions about the interaction between science politics and ideology as well as many dominant stereotypes mostly inherited from the Cold War about Soviet history in general Science and technology were not only granted unprecedented importance in Soviet society but they also exerted a crucial formative influence on the Soviet political system

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**The Martians of Science** István Hargittai, 2008 Hargittai tells the story of five remarkable Hungarians Wigner won a Nobel Prize in theoretical physics Szilard was the first to see that a chain reaction based on neutrons was possible initiated the Manhattan Project but left physics to try to restrict nuclear arms von Neumann could solve difficult problems in his head and developed the modern computer for more complex problems von Kármán became the first director of NASA's Jet Propulsion Laboratory providing the scientific basis for the U.S. Air Force and Teller was the father of the hydrogen bomb whose name is now synonymous with the controversial Star Wars initiative of the 1980s

Survival Governance Peter Drahos, 2021-01-29 To deal with the climate crisis we need a new paradigm of technological and social development aimed at the restoration of ecological systems the bio digital energy paradigm How do we get to this paradigm The book draws on more than 250 interviews across 17 key countries to present a practical answer this question We need a strong state to lead There are four possible leaders the EU US China and India China is best placed to lead It is building experimental cities like eco cities and sponge cities out of which could grow the climate survival governance that the world badly needs

*The Oxford Handbook of the History of Quantum Interpretations* Olival Freire Jr, Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, Osvaldo Pessoa Jr, 2022-03-07 Crucial to most research in physics as well as leading to the development of inventions such as the transistor and the laser quantum mechanics approaches its centenary with an impressive record However the field has also long been the subject of ongoing debates about the foundations and interpretation of the theory referred to as the quantum controversy This Oxford Handbook offers a historical overview of the contrasts which have been at the heart of quantum physics for the last 100 years Drawing on the wide ranging expertise of several contributors working across physics history and philosophy the handbook outlines the main theories and interpretations of quantum physics It goes on to tackle the key controversies surrounding the field touching on issues such as determinism realism locality classicality information measurements mathematical foundations and the links between quantum theory and gravity This engaging introduction is an essential guide for all those interested in the history of scientific controversies and history of quantum physics It also provides a fascinating examination of the potential of quantum physics to influence new discoveries and advances in fields such as quantum information and computing

**Leon Rosenfeld: Physics, Philosophy, And Politics In The Twentieth Century** Anja Skaar Jacobsen, 2012-01-16 L on Rosenfeld 1904-1974 was a remarkable many sided physicist of exceptional erudition He was at the center of modern physics and was well known as Niels Bohr's close collaborator and spokesman Besides he reflected deeply on the history and philosophy of science and its social role from a leftist perspective As both actor and acute spectator of modern physics and as

a polyglot cosmopolitan whose life crossed those of many important people in both the East and West as well as by virtue of his close collaboration and friendship with Bohr Rosenfeld was an important figure in twentieth century physics His biography illuminates the development popularization and reception of quantum physics and its interpretation in addition to the development of the political Left The book draws extensively from previously untapped unpublished sources in more than five languages

**The Cambridge History of Science: Volume 8, Modern Science in National, Transnational, and Global Context** Hugh Richard Slotten, Ronald L. Numbers, David N. Livingstone, 2020-04-09 This volume in the highly respected Cambridge History of Science series is devoted to exploring the history of modern science using national transnational and global frames of reference Organized by topic and culture its essays by distinguished scholars offer the most comprehensive and up to date nondisciplinary history of modern science currently available Essays are grouped together in separate sections that represent larger regions Europe Africa the Middle East South Asia East and Southeast Asia the United States Canada Australia New Zealand Oceania and Latin America Each of these regional groupings ends with a separate essay reflecting on the analysis in the preceding chapters Intended to provide a balanced and inclusive treatment of the modern world contributors analyze the history of science not only in local national and regional contexts but also with respect to the circulation of knowledge tools methods people and artifacts across national borders

**Scientific Research In World War II** Ad Maas, Hans Hooijmaijers, 2009-01-13 Scientific Research in World War II seeks to explore how scientists managed to cope with the particular circumstances created by the war The book focuses on both war waging countries such as the United Kingdom Japan Germany and the United States and those under occupation such as the Netherlands and France

Debates on Stalinism Mark Edele, 2020-06-11 Debates on Stalinism introduces major debates about Stalinism during and after the Cold War Did Stalinism form a system in its own right or was it a mere stage in the overall development of Soviet society Was it an aberration from Leninism or the logical conclusion of Marxism Was its violence the revenge of the Russian past or the result of a revolutionary mindset Was Stalinism the work of a madman or the product of social forces beyond his control The book shows the complexities of historiographical debates where evidence politics personality and biography are strongly entangled Debates on Stalinism allows readers to better understand not only the history of history writing but also contemporary controversies and conflicts in the successor states of the Soviet Union in particular Russia and Ukraine

The Pseudoscience Wars Michael D. Gordin, 2012-09-26 The Pseudoscience Wars simultaneously reveals the surprising Cold War roots of our contemporary dilemma and points readers to a different approach to drawing the line between knowledge and nonsense

**The First War of Physics** Jim Baggott, 2011-08-15 An epic story of science and technology at the very limits of human understanding the monumental race to build the first atomic weapons Rich in personality action confrontation and deception The First War of Physics is the first fully realized popular account of the race to build humankind s most destructive weapon The book draws on declassified material such as MI6 s Farm Hall transcripts

coded soviet messages cracked by American cryptographers in the Venona project and interpretations by Russian scholars of documents from the soviet archives Jim Baggott weaves these threads into a dramatic narrative that spans ten historic years from the discovery of nuclear fission in 1939 to the aftermath of Joe 1 August 1949 s first Soviet atomic bomb test Why did physicists persist in developing the atomic bomb despite the devastation that it could bring Why despite having a clear head start did Hitler s physicists fail Could the soviets have developed the bomb without spies like Klaus Fuchs or Donald Maclean Did the allies really plot to assassinate a key member of the German bomb program Did the physicists knowingly inspire the arms race The First War of Physics is a grand and frightening story of scientific ambition intrigue and genius a tale barely believable as fiction which just happens to be historical fact *The Red Rockets' Glare* Asif A. Siddiqi,2010-02-26 An academic study on the birth of the Soviet space program situating the birth of cosmic enthusiasm within Russian and Soviet history **Science In Moscow: Memorials Of A Research Empire** Istvan Hargittai,Magdolna Hargittai,2019-08-20 The statuary and monuments catalogued in this impressive body of work are accompanied by descriptions of the subjects their work and achievements Chemistry WorldMoscow is the center of science and higher education of Russia and is also an international hub of science There have been milestone achievements of science in Russia and the Soviet Union especially in the areas of physics chemistry mathematics the conquest of space various technologies and medicine However the scientists and inventors often created in isolation and have become less known than their discoveries would justify At the same time there is no other city in the world that has so many memorials honoring scientists as Moscow There is a caveat in that political considerations have often influenced who was remembered and who was not This book presents statues memorial plaques and historical buildings Not only celebrated excellences are mentioned but also some of the greats that perished during the years of terror The book is full of human drama and 750 photos illustrate the narrative Science in Moscow follows Budapest Scientific and New York Scientific and is the third in the series about memorials of scientists in great cities of the world *David Bohm* Olival Freire Junior,2019-09-05 This authoritative biography addresses the life and work of the quantum physicist David Bohm Although quantum physics is considered the soundest physical theory its strange and paradoxical features have challenged and continue to challenge even the brightest thinkers David Bohm dedicated his entire life to enhancing our understanding of quantum mysteries in particular quantum nonlocality His work took place at the height of the cultural political upheaval in the 1950 s which led him to become the most notable American scientist to seek exile in the last century The story of his life is as fascinating as his ideas on the quantum world are appealing **Atomic Age America** Martin V. Melosi,2016-09-13 Atomic Age America looks at the broad influence of atomic energy focusing particularly on nuclear weapons and nuclear power on the lives of Americans within a world context The text examines the social political diplomatic environmental and technical impacts of atomic energy on the 20th and 21st centuries with a look back to the origins of atomic theory **A History of Russian Thought** William Leatherbarrow,Derek Offord,2010-04-01

The history of ideas has played a central role in Russia's political and social history. Understanding its intellectual tradition and the way the intelligentsia have shaped the nation is crucial to understanding the Russia of today. This history examines important intellectual and cultural currents: the Enlightenment, nationalism, nihilism, and religious revival, and key themes: conceptions of the West and East, the common people, and attitudes to capitalism and natural science in Russian intellectual history. Concentrating on the Golden Age of Russian thought in the mid nineteenth century, the contributors also look back to its eighteenth century origins in the flowering of culture following the reign of Peter the Great and forward to the continuing vitality of Russia's classical intellectual tradition in the Soviet and post Soviet eras. With brief biographical details of over fifty key thinkers and an extensive bibliography, this book provides a fresh comprehensive overview of Russian intellectual history.

Stalin and Stalinism Martin McCauley, 2019-04-09 One of the most successful dictators of the twentieth century, Stalin transformed the Communist Party of the Soviet Union into one of the world's leading political parties. *Stalin and Stalinism* explores how he amassed, retained, and deployed power to dominate not only his close associates but the population of the Soviet Union and Soviet Empire. Moving from leader to autocrat and finally despot, Stalin played a key role in shaping the first half of the twentieth century, with at one time around one third of the planet adopting his system. His influence lives on despite turning their backs on Stalin's anti capitalism in the later twentieth century, countries such as China and Vietnam retain his political model, the unbridled power of the Communist Party. First published in 1983, *Stalin and Stalinism* has established itself as one of the most popular textbooks for those who want to understand the Stalin phenomenon. This updated fourth edition draws on a wealth of new publications and includes increased discussion on culture, religion, and the new society that Stalin fashioned, as well as more on spying, Stalin's legacy, and his character, as well as his actions. Supported by a chronology of key events, *Who's Who* and *Guide to Further Reading*, this concise assessment of one of the major figures of the twentieth century world history remains an essential read for students of the subject.

The Neutron's Children Sean Johnston, 2012-04-26 This account tracks the Allied atomic energy experts who emerged from the Manhattan Project to explore optimistic but distinct paths in the USA, UK, and Canada. Characterized successively as admired atomic scientists, mistrusted spies, and heroic engineers, their identities were ultimately shaped by nuclear accidents.

*The Strangest Man* Graham Farmelo, 2009-08-25 Paul Dirac was among the greatest scientific geniuses of the modern age. One of Einstein's most admired colleagues, he helped discover quantum mechanics, and his prediction of antimatter was one of the greatest triumphs in the history of physics. In 1933 he became the youngest theoretician ever to win the Nobel Prize in Physics. Dirac's personality, like his achievements, is legendary. *The Strangest Man* uses previously undiscovered archives to reveal the many facets of Dirac's brilliantly original mind.

*Communist Psychology in Argentina* Luciano Nicolás García, 2022-10-18 This book presents an intellectual history of the reception of Soviet psychology in Argentina as part of the communist scientific culture promoted by the Argentine Communist Party. This research reconstructs the material conditions, the political

conjunctures and disciplinary disputes that allowed the international circulation of the works and ideas of Ivan Pavlov and Lev Vygotsky and analyzes how pavlovism and vygotskianism impacted psychology psychiatry and the wider mental health field in Argentina between 1935 and 1991 Starting on the 1930s a group of professionals scientists and intellectuals who belonged to the Argentine Communist Party introduced Soviet psychology in Argentina as an effort to promote the philosophical and political principles of Marxism Leninism in Argentinean psychological and psychiatric academic circles as well as in mental health institutions This book shows how the efforts of this group contributed to the diffusion of communist scientific ideas and practices in South America as part of a transnational circuit of communist scholars and intellectuals that included France Spain and the USA which fostered scientific exchange and politicized science during the years of antifascist struggle and the Cold War Communist Psychology in Argentina Transnational Politics Scientific Culture and Psychotherapy 1935 1991 will be of interest to historians of psychology and psychiatry concerned with the study of the relationship between Marxism and psychology in the 20th century as well as to historians of science in general attentive to the study of the circulation of scientific ideas as the book reconstructs the networks of the international communist movement as an effort to provide a scientific basis for the development of a socialist program in different parts of the world



## Decoding **Stalins Great Science The Times And Adventures Of Soviet Physicists**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Stalins Great Science The Times And Adventures Of Soviet Physicists**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Stalins Great Science The Times And Adventures Of Soviet Physicists**

1. Understanding the eBook Stalins Great Science The Times And Adventures Of Soviet Physicists
  - The Rise of Digital Reading Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Advantages of eBooks Over Traditional Books
2. Identifying Stalins Great Science The Times And Adventures Of Soviet Physicists
  - 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 Stalins Great Science The Times And Adventures Of Soviet Physicists
  - User-Friendly Interface
4. Exploring eBook Recommendations from Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Personalized Recommendations

- Stalins Great Science The Times And Adventures Of Soviet Physicists User Reviews and Ratings
- Stalins Great Science The Times And Adventures Of Soviet Physicists and Bestseller Lists
- 5. Accessing Stalins Great Science The Times And Adventures Of Soviet Physicists Free and Paid eBooks
  - Stalins Great Science The Times And Adventures Of Soviet Physicists Public Domain eBooks
  - Stalins Great Science The Times And Adventures Of Soviet Physicists eBook Subscription Services
  - Stalins Great Science The Times And Adventures Of Soviet Physicists Budget-Friendly Options
- 6. Navigating Stalins Great Science The Times And Adventures Of Soviet Physicists eBook Formats
  - ePub, PDF, MOBI, and More
  - Stalins Great Science The Times And Adventures Of Soviet Physicists Compatibility with Devices
  - Stalins Great Science The Times And Adventures Of Soviet Physicists Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Highlighting and Note-Taking Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Interactive Elements Stalins Great Science The Times And Adventures Of Soviet Physicists
- 8. Staying Engaged with Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Stalins Great Science The Times And Adventures Of Soviet Physicists
- 9. Balancing eBooks and Physical Books Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Stalins Great Science The Times And Adventures Of Soviet Physicists
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Setting Reading Goals Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stalins Great Science The Times And Adventures Of Soviet Physicists
  - Fact-Checking eBook Content of Stalins Great Science The Times And Adventures Of Soviet Physicists

- 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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