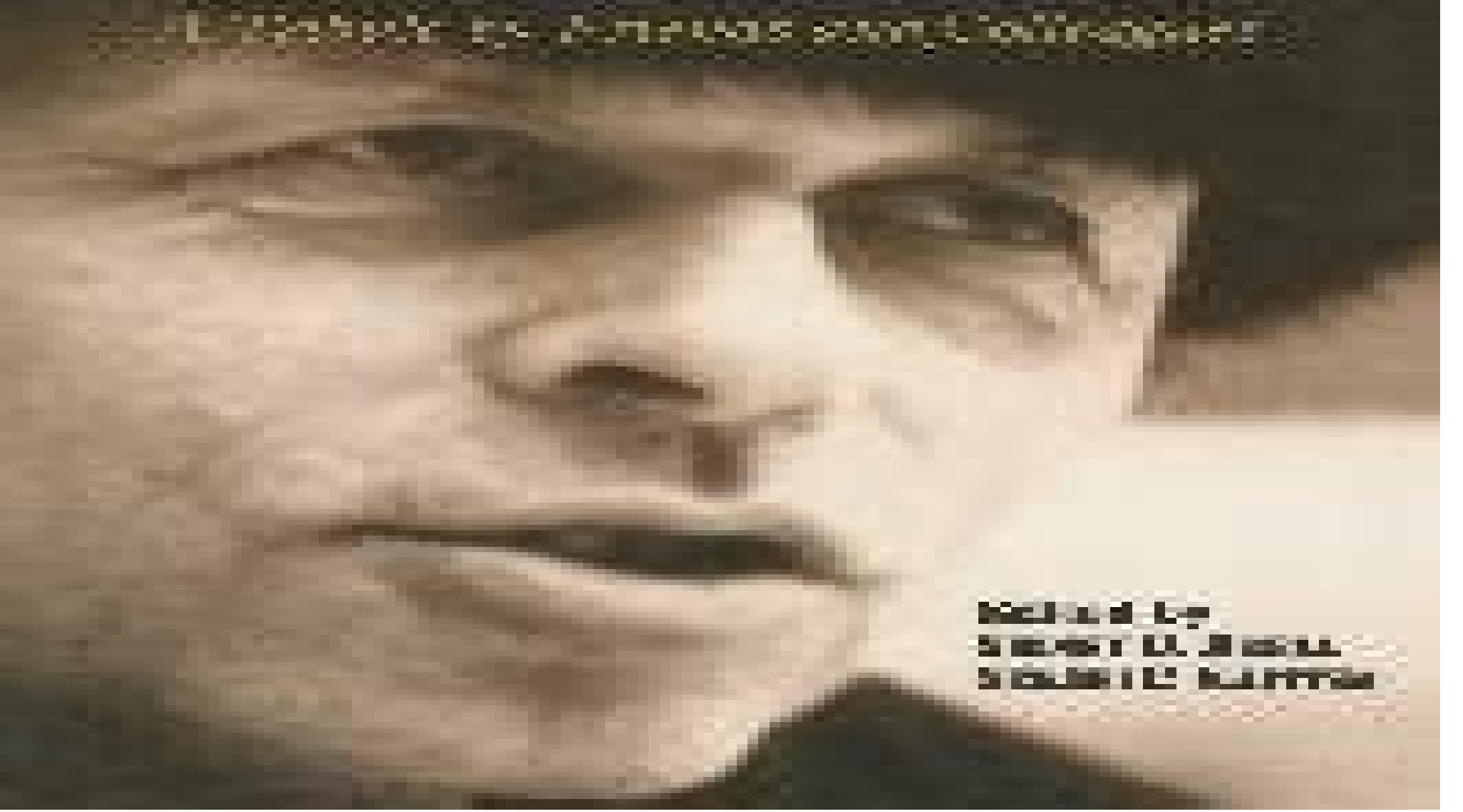


SAKHAROV REMEMBERED



Edited by
SERGEI A. JESSUP
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Sakharov Remembered

A. I. Studenikin



Sakharov Remembered:

Sakharov Remembered Sidney D. Drell, S.P. Kapitza, 1991-05 Blurb the references are extensive If the textbook from which you are teaching leaves you dissatisfied with its treatment of a specific topic Bailyn's compendium is a good place to look for a different or a deeper presentation American Journal of Physics This work presents the application and theory of thermodynamics including its formation according to statistical mechanics and its extension into Special Relativity A unique feature of this book is the addition of the history of thermodynamics designed to illustrate and emphasize the development of present day concepts This book provides valuable insights into how these concepts evolved by discussing the pioneering work of Galileo Clausius Kelvin and others The inclusion of both a complete survey of the subject and an historical background not found in other books make this a valuable reference for individuals and graduate students Partial Contents 1 Temperature and equilibrium 2 Heat and work 3 The emergence of thermodynamics 4 Entropy and the Second Law 5 Special topics 6 Equilibrium thermodynamics 7 Applications 8 Secondary Effects the Third Law of Thermodynamics 9 Phase Transitions 10 Microscopic Theories 11 Statistical Mechanics 12 Thermodynamics in Special Relativity Sakharov Remembered Andrei Sakharov, 1991 A tribute to the scientist Andrei Sakharov who was generally known as the father of the Soviet H bomb

Sakharov: A Biography Richard Lourie, 2019-08-09 Seemingly shy Andrei Sakharov was in fact a man of three great passions His passion for physics ultimately lead him to create the Soviet H Bomb making the USSR a super power But he rejected all the position and prestige his inventions had brought him in the name of a greater passion for justice And yielding nothing to these two passions was his passion for human rights activist Elena Bonner their love story one of the great romances of our time This book tells the story of the man his passions and the time and place where they all played out As Richard Lourie's new subtle and revealing biography of Sakharov demonstrates Sakharov ranks with Nelson Mandela as a person who helped guide his country to democracy changing himself in the process One of the strengths of Lourie's biography is his description and analysis of how this transition occurred a fascinating account of Sakharov Lourie's analysis of Sakharov's complicated political journey seems authentic and immensely revealing Loren Graham The New York Times A vivid portrait of Sakharov this moral and intellectual giant Lourie has written a highly intelligent and exceptionally readable book He not only captures his protagonist admirably but exhibits a fine feel for the social and political backdrop as well as for the peculiar mixture of fearful servility and courageous generosity of the Russian people Among other things he vividly brings to life how the Communist regime constrained scientists sometimes even arresting and murdering them while those who survived persevered in their work to achieve remarkable results Aleksa Djilas Commentary Magazine Lourie does full justice to a life that could not be more engrossing The socially introverted son of Moscow intelligentsia Andrei Sakharov became a star physics pupil then chief architect of the Soviet Union's first thermonuclear device and later on a dissident and target of KGB ire and finally the moral conscience of a democratically awakening Russia The evolution from a politically passive

scientist to a lonely figure holding sidewalk vigils outside kangaroo courtrooms is almost unfathomable for a non Russian. Lourie however makes it comprehensible not least by painting with an artist's spare, deft strokes this transcendent figure into the history of his day. Robert Legvold, *Foreign Affairs*. Richard Lourie is ideally placed to write the first full biography of this remarkable man. He was able to interview Sakharov and many of his colleagues. He has translated Sakharov's memoirs and often uses direct speech drawn from them to take us behind the scenes without giving rise to the usual suspicion of novelistic invention. This makes for an engagingly readable book. Lourie's appraisal of Sakharov as a man is scrupulously balanced with as much emphasis on his obstinacy as on his compassion. The book conveys both the elation of scientific work, the intense love between Sakharov and his second wife and the bewildering nature of human courage. Elaine Feinstein, *The Telegraph*. The inventor of the Soviet H bomb, Sakharov was in the forefront of the post-war breakthrough in thermonuclear physics that led to the creation of atomic energy. Yet he also stood heroically at times in the vanguard of the movement for human rights in the Soviet Union. Richard Lourie tells both these stories in this first full-length biography of the physicist and dissident. Lourie has benefited from the recent publication of the KGB files on Sakharov. He also knew the man himself whose *Memoirs* he helped to smuggle out of Russia to the West where they were published in Lourie's translation a year after Sakharov's death in 1989. Sakharov's widow, Elena Bonner, has helped Lourie's research which adds a welcome new perspective on the last 20 years of his eventful life when husband and wife were subjected to a bullying campaign of threats and slander by the KGB in a vain attempt to silence them. Orlando Figes, *The Telegraph*. A solid factual and interpretive study. Sakharov is an important account of one scientist's courage and his quest for a humane world at peace. Herbert Mitgang, *Chicago Tribune*. This first biography of the renowned physicist, Soviet dissident and Nobel Peace Prize winner weaves the details of Sakharov's life together with the history of the Soviet Union which barely outlasted him. Lourie describes Sakharov's upbringing in a liberal family and his rise through the Soviet science program during the 1930s and 40s. Lourie's vivid accounts of Sakharov's meetings with Stalin and KGB chief Beria, his role in the intelligentsia, his marriages and his cramped apartments offer a textured picture of Soviet life during the Cold War. Lourie's intelligent, engaging biography will be appreciated by those interested in Russian and Cold War history. Publishers Weekly. *Gorbachev: His Life and Times*. William Taubman, 2017-09-05. Finalist for the National Book Critics Circle Award in Biography. Longlisted for the Andrew Carnegie Medal for Excellence in Nonfiction. The definitive biography of the transformational Russian leader by the Pulitzer Prize-winning author of *Khrushchev*. Essential reading for the twenty-first century. Radhika Jones, *The New York Times Book Review*. When Mikhail Gorbachev became the leader of the Soviet Union in 1985, the USSR was one of the world's two superpowers. By 1989, his liberal policies of perestroika and glasnost had permanently transformed Soviet Communism and had made enemies of radicals on the right and left. By 1990, he more than anyone else had ended the Cold War and in 1991, after barely escaping from a coup attempt, he unintentionally presided over the collapse of the Soviet Union he had tried to save. In the

first comprehensive biography of the final Soviet leader William Taubman shows how a peasant boy became the Soviet system's gravedigger how he clambered to the top of a system designed to keep people like him down how he found common ground with America's arch conservative president Ronald Reagan and how he permitted the USSR and its East European empire to break apart without using force to preserve them Throughout Taubman portrays the many sides of Gorbachev's unique character that by Gorbachev's own admission make him difficult to understand Was he in fact a truly great leader or was he brought low in the end by his own shortcomings as well as by the unyielding forces he faced Drawing on interviews with Gorbachev himself transcripts and documents from the Russian archives and interviews with Kremlin aides and adversaries as well as foreign leaders Taubman's intensely personal portrait extends to Gorbachev's remarkable marriage to a woman he deeply loved and to the family that they raised together Nuanced and poignant yet unsparing and honest this sweeping account has all the amplitude of a great Russian novel

Britain and the H-Bomb L. Arnold,2001-03-30 This

book written with unique access to official archives tells the secret story of Britain's H bomb the scientific and strategic background the government's policy decision the work of the remarkable men who created the bomb the four weapon trials at a remote Pacific atoll in 1957-58 and the historic consequences

Soviet Science under Control Jeffrey L.

Roberg,2016-07-27 Roberg examines the relationship between the political leadership of the Soviet Union and Soviet science Previously this relationship was typically characterized as one of Communist Party dominance over the sciences He argues that the relationship between scientists and the leadership is better viewed as bi-directional The author concludes that scientists had an influence on policy makers in the areas of nuclear policy and human rights although not to the same degree as the Party had on science and scientists

The River of Time Igor' Dmitrievich Novikov,2001-05-31 Can we change the past The surprising answer to this question can be found in the final chapters of this book Examining the history of the study of time and presenting in detail the modern state of physical research on the subject this book is a superb overview of a fascinating subject The figures who have helped to shape our views on time are presented as real people in the context of their own times and struggles from Socrates' troubles in Athens to the experiences of physicists under the former Soviet Union In addition Novikov details his own experiences with great Russian and Western physicists such as Sakharov Zeldovich Rees and Hawking Details of modern theories in fields such as the possibility of time machines anomalous flows of time at black or white holes and the possible source of The River of Time are described with authority and clarity

Political Fallout Toshihiro Higuchi,2020-05-05 Political Fallout is the story of one of the first human-driven truly global environmental crises radioactive fallout from nuclear weapons testing during the Cold War and the international response Beginning in 1945 the United States Britain and the Soviet Union detonated hundreds of nuclear weapons in the atmosphere scattering a massive amount of radioactivity across the globe The scale of contamination was so vast and radioactive decay so slow that the cumulative effect on humans and the environment is still difficult to fully comprehend The international debate over

nuclear fallout turned global radioactive contamination into an environmental issue eventually leading the nuclear superpowers to sign the landmark Partial Test Ban Treaty PTBT in 1963 Bringing together environmental history and Cold War history Toshihiro Higuchi argues that the PTBT originally proposed as an arms control measure transformed into a dual purpose initiative to check the nuclear arms race and radioactive pollution simultaneously Higuchi draws on sources in English Russian and Japanese considering both the epistemic differences that emerged in different scientific communities in the 1950s and the way that public consciousness around the risks of radioactive fallout influenced policy in turn Political Fallout addresses the implications of science and policymaking in the Anthropocene an era in which humans are confronting environmental changes of their own making

International and Interdisciplinary Studies in Green Computing

Ganesh, K.,Anbuudayasankar, S. P.,2012-12-31 With the growing awareness and popularity of environmental preservation research on green computing has gained recognition around the world Information technology must adopt initiatives in making computers as energy efficient as possible as well as design algorithms and systems for efficiency related computer technologies International and Interdisciplinary Studies in Green Computing provides coverage on strategic green issues and practices for competitive advantages and cost cutting in modern organizations and business sectors in order to reach environmental goals

Khrushchev: The Man and His Era William Taubman,2004-03-30 Tells the life story of twentieth century Soviet leader Nikita Khrushchev featuring information from previously inaccessible Russian and Ukrainian archives

Dark Sun Richard Rhodes,2012-09-18 Here for the first time in a brilliant panoramic portrait by the Pulitzer Prize winning author of The Making of the Atomic Bomb is the definitive often shocking story of the politics and the science behind the development of the hydrogen bomb and the birth of the Cold War Based on secret files in the United States and the former Soviet Union this monumental work of history discloses how and why the United States decided to create the bomb that would dominate world politics for more than forty years

Buried Glory Istvan Hargittai,2013-09-19 Moscow s Novodevichy Cemetery is the final resting place of some of Russia s most celebrated figures from Khrushchev and Yeltsin to Anton Chekhov Sergei Eisenstein Nikolai Gogol and Mikhail Bulgakov Using this famed cemetery as symbolic starting point Buried Glory profiles a dozen eminent Soviet scientists nine of whom are buried at Novodevichy men who illustrate both the glorious heights of Soviet research as well as the eclipse of science since the collapse of the USSR Drawing on extensive archival research and his own personal memories renowned chemist Istvan Hargittai bring these figures back to life placing their remarkable scientific achievements against the tense political backdrop of the Cold War Among the eminent scientists profiled here are Petr L Kapitza one of the most brilliant representatives of the great generation of Soviet physicists a Nobel Prize winner who risked his career and his life standing up for fellow scientists against Stalin Yulii B Khariton who ran the highly secretive Soviet nuclear weapons laboratory Arzamas 16 despite being Jewish and despite the fact that his father Boris had been sent to the labor camps And Andrei D Sakharov the father of the Soviet hydrogen bomb and a brilliant fighter for

human rights for which he won the Nobel Peace Prize Along the way Hargittai shines a light on the harrowing conditions under which these brilliant researchers excelled Indeed in the post war period Stalin s anti Semitism and ongoing anti science measures devastated biology damaged chemistry and nearly destroyed physics The latter was saved only because Stalin realized that without physics and physicists there could be no nuclear weapons The extraordinary scientific talent nurtured by the Soviet regime belongs almost entirely to the past Buried Glory is both a fitting tribute to these great scientists and a fascinating account of scientific work behind the Iron Curtain

Frontiers of Particle Physics A. I. Studenikin, 2003 This volume of proceedings deals with a wide variety of topics OCo both in theory and in experiment OCo in particle physics such as electroweak theory tests of the Standard Model and beyond heavy quark physics nonperturbative QCD neutrino physics astroparticle physics quantum gravity effects and physics at the future accelerators

Dead Again Masha Gessen, 1997-06-17 The author examines the ways in which intellectuals are finding an identity in the new Russia

Cover *Black Holes and Time Warps* Kip S Thorne, 1994 In this masterfully written and brilliantly informed work Dr Rhorne the Feynman Professor of Theoretical Physics at Caltech leads readers through an elegant always human tapestry of interlocking themes answering the great question what principles control our universe and why do physicists think they know what they know Features an introduction by Stephen Hawking

Sidney D. Drell Lenora Ferro, 2021-02-01 Sidney Drell 1926 2016 left a legacy worthy of many lifetimes Physicist professor national security expert amateur musician behind the scenes diplomat and champion for peace and human rights he was also friend and mentor Dozens of interviews with those whose lives he touched reveal Drell as a man of brilliance curiosity and passions whose devotion to the arts family and community equaled his love for physics Teaching at Stanford University and working at its linear particle accelerator Drell made significant scientific contributions Not content to leave science in the lab or classroom Drell brought his intellectual heft to public service advising the US government on issues relating to science advocating for Russian dissident Andrei Sakharov and urging nuclear disarmament Scaling the heights of achievement with a down to earth sensibility Drell met his destiny empowered and validated by a prodigious mind generous spirit and tact in fostering goodwill for the benefit of all

A Russian Lullaby Deldon Anne McNeely, 2012-06-21 2012 I fell in love with Russia from afar when I was a child Fate brought me to live there from 1977 to 1980 and I continued a dysfunctional love affair with her culture When I first wrote this memoir twenty years later in 2000 it was an expression of hope Hope had seen me through those three years in the Soviet Union and I wanted to record that for whoever needed to hear it In 2000 the USSR as we knew it had collapsed and the Russian and Ukrainian citizens that I had known were facing the task of founding a democratic society for the first time in their histories Now a dozen years later the task is still ongoing and the news out of Russia is that voices from the people are being heard as never before The older generation that I had met in the 70s had seen their hopes for a benevolent communism dashed The bright young adults of that time conditioned to serve the state are having to ask questions and make

decisions about their leadership that were never possible before So much has changed So little has changed My little memoir seems timely again another small voice from the street *Year 501* Noam Chomsky,2015-03-30 The eminent political activist examines the principles and strategies of imperial violence and propaganda from American colonization to the modern day In this incisive study Noam Chomsky demonstrates that the great work of subjugation and conquest has changed little over the years Analyzing American policy and its consequences in Haiti Latin America Cuba Indonesia and even areas of the Third World developing in the United States Chomsky draws striking parallels across centuries of imperialist adventures Year 501 sets out a compelling argument that the murder and exploitation of modern day imperialism and the denialism that allows it to flourish are inextricably linked to the genocides of colonial times This edition includes a new preface by the author **Libraries in Russia** Valerie Leonov,2011-12-22 In Libraries in Russia the author Valerii Leonov pursues the history of the first Russian national library the Library of the Russian Academy of Science Bibliotheca Akademii Nauk short BAN from the beginning of the 18th century to the present The library was founded by Peter the Great in 1714 and served as a model for the foundation of further libraries during the 18th century This historical description is based on extensive historical and bibliographic material including unique archive material which is edited here for the first time The title will be of interest to all in the humanities and everyone interested in Russian history and culture *Transforming Nature* Michael E. Gorman,2012-12-06 This book is but the draft of a draft as Melville said of Moby Dick There is no prose here to match Melville s but the scope is worthy of the great white whale No one could possibly write a comprehensive authoritative book on ethics invention and discovery I have not tried to though I hope my bibliography will be a useful starting point for other explorers and the cases and ideas presented here will keep people arguing for years Although this book is nothing like a textbook it is written for my students I was trained as a teacher of psychology in graduate school and ended up by one of those happy chances of the job market teaching psychology to engineering students rather than psyche majors My dissertation and early research were in the psychology of scientific hypothesis testing see Chapter 2 When I team taught a course with W Bernard Carlson a historian of technology I saw how cognitive psychology might be applied to the study of invention Bernie and I received funding from the National Science Foundation for three years of research on the invention of the telephone a portion of that work is described in Chapter 3

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Sakharov Remembered Introduction

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