

LIFE AND LETTERS OF A RUSSIAN PHYSICIST

KAPITZA

**in CAMBRIDGE
and MOSCOW**

Yours very sincerely

Peter Kapitza

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Kapitza In Cambridge And Moscow Life And Letters Of A Russian Physicist

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Kapitza In Cambridge And Moscow Life And Letters Of A Russian Physicist:

Kapitza in Cambridge and Moscow Петр Леонидович Капица, Petr Leonidovich Kapitsa, 1990 The unusual career of the famous Soviet physicist Peter Kapitza was divided between Cambridge and Moscow In Cambridge he was a protege of Rutherford and while studying there he opened up a new area of research in magnetism and low temperature physics However in 1934 during a summer visit to the Soviet Union Kapitza was prevented from returning to Cambridge and remained in Moscow for the rest of his long life In spite of many ups and downs and considerable difficulties in his relations with top political figures in the Kremlin he continued to enhance his scientific reputation and late in life was awarded the Nobel Prize After an introductory biographical memoir the greater part of the book consists of extracts from the numerous letters Kapitza wrote throughout his life letters which are distinguished by their eloquence the originality of his opinions and his forthrightness His very interesting correspondence with Rutherford and above all his many letters to top political figures in the Soviet Union such as Molotov Stalin and Khrushchev on questions of scientific and industrial policy are all included in this unique document Together they provide a rounded picture of a remarkable personality who contributed so much to the scientific and cultural life of both England and the Soviet Union This fascinating book is illustrated with an impressive collection of historical photographs and should be of interest to science historians to low temperature physicists and to Sovietologists but above all the book should appeal to the general reader for its human interest Some of the letters reveal his emotional reactions to the major blows he had to suffer on several occasions while others provide penetrating and often amusing comments on English life and institutions as seen by a Russian and on Soviet life from the inside

Kapitza in Cambridge and Moscow J.W. Boag, P.E. Rubinin, D. Shoenberg, 2012-12-02 The unusual career of the famous Soviet physicist Peter Kapitza was divided between Cambridge and Moscow In Cambridge he was a protege of Rutherford and while studying there he opened up a new area of research in magnetism and low temperature physics However in 1934 during a summer visit to the Soviet Union Kapitza was prevented from returning to Cambridge and remained in Moscow for the rest of his long life In spite of many ups and downs and considerable difficulties in his relations with top political figures in the Kremlin he continued to enhance his scientific reputation and late in life was awarded the Nobel Prize After an introductory biographical memoir the greater part of the book consists of extracts from the numerous letters Kapitza wrote throughout his life letters which are distinguished by their eloquence the originality of his opinions and his forthrightness His very interesting correspondence with Rutherford and above all his many letters to top political figures in the Soviet Union such as Molotov Stalin and Khrushchev on questions of scientific and industrial policy are all included in this unique document Together they provide a rounded picture of a remarkable personality who contributed so much to the scientific and cultural life of both England and the Soviet Union This fascinating book is illustrated with an impressive collection of historical photographs and should be of interest to science historians to low temperature physicists and to Sovietologists but above all the book should

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Candid Science Iv: Conversations With Famous Physicists Magdolna Hargittai,Istvan Hargittai,2004-04-08 Candid Science IV Conversations with Famous Physicists contains 36 interviews with well known physicists including 20 Nobel laureates Templeton Prize winners Wolf Prize winners and other luminaries Physics has been one of the determining fields of science in the past 100 years playing a conspicuous role not only in science but also in world politics and economics These in depth conversations provide a glimpse into the greatest achievements of physics during the past few decades featuring stories of the discoveries and showing the human drama behind them The greatest physicists are brought into close human proximity as if readers were having a conversation with them The interviewees span a wide range of scientists from such early giants as Eugene Wigner and Mark Oliphant to members of the youngest generation such as the 2001 Nobel laureate Wolfgang Ketterle The list includes famous personalities of our time such as Steven Weinberg Leon Lederman Norman Ramsey Edward Teller John Wheeler Mildred Dresselhaus Maurice Goldhaber Benoit Mandelbrot John Polkinghorne and Freeman Dyson a

The Physics of a Lifetime Vitaly L. Ginzburg,2013-03-09 Every reader interested in understanding the important problems in physics and astrophysics and their historic development over the past 60 years will enjoy this book immensely The philosophy history and the individual views of famous scientists of the 20th century known personally to the author make this book fascinating for non physicists too The book consists of three parts on I major problems of physics and astrophysics II the philosophy and history of science and III memorial essays on famous physicists The author is an internationally renowned scientist who summarizes here his life long interests experience and insights into the work of other eminent 20th century physicists Professor Ginzburg s fundamental contributions to the theory of superconductivity encapsulated in the famous and widely used Ginzburg Landau equations have been recognized with the 2003 Nobel Prize in Physics shared with A A Abrikosov and A E Leggett

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 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 *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

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 led 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

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 World Moscow 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

Sturge's Statistical and Thermal Physics, Second Edition Jeffrey Olafsen, 2019-06-30 The original work by M D Sturge has been updated and expanded to include new chapters covering non equilibrium and biological systems This second edition re organizes the material in a more natural manner into four parts that continues to assume no previous knowledge of thermodynamics The four divisions of the material introduce the subject inductively and rigorously beginning with key concepts of equilibrium thermodynamics such as heat temperature and entropy The second division focuses on the fundamentals of modern thermodynamics free energy chemical potential and the partition function The second half of the book is then designed with the flexibility to meet the needs of both the instructor and the students with a third section focused on the different types of gases ideal Fermi Dirac Bose Einstein Black Body Radiation and the Photon gases In the fourth and final division of the book modern thermostatistical applications are addressed semiconductors phase transitions transport processes and finally the new chapters on non equilibrium and biological systems Key Features Provides the most readable thorough introduction to statistical physics and thermodynamics with magnetic atomic and electrical systems addressed alongside development of fundamental topics at a non rigorous mathematical level Includes brand new chapters on biological and chemical systems and non equilibrium thermodynamics as well as extensive new examples from soft condensed matter and correction of typos from the prior edition Incorporates new numerical and simulation exercises throughout the book Adds more worked examples problems and exercises

Stalin and the Scientists Simon Ings, 2017-02-21 One of the finest most gripping surveys of the history of Russian science in the twentieth century Douglas Smith author of *Former People* *The Final Days of the Russian Aristocracy* *Stalin and the Scientists* tells the story of the many gifted scientists who worked in Russia from the years leading up to the revolution through the death of the Great Scientist himself Joseph Stalin It weaves together the stories of scientists politicians and ideologues into an intimate and sometimes horrifying portrait of a state determined to remake the world They often wreaked great harm Stalin was himself an amateur botanist and by falling under the sway of dangerous charlatans like Trofim Lysenko who denied the existence of genes and by relying on antiquated ideas of biology he not only destroyed the lives of hundreds of brilliant scientists he caused the death of millions through famine But from atomic physics to management theory and from radiation biology to neuroscience and psychology these Soviet experts also made breakthroughs that forever changed agriculture education and medicine A masterful book that deepens our understanding of Russian history *Stalin and the Scientists* is a great achievement of research and storytelling and a gripping look at what happens when science falls prey to politics Longlisted for the Baillie Gifford Prize for Non Fiction in 2016 A New York Times Book Review Paperback Row

selection Ings s research is impressive and his exposition of the science is lucid Filled with priceless nuggets and a cast of frauds crackpots and tyrants this is a lively and interesting book and utterly relevant today The New York Times Book Review A must read for understanding how the ideas of scientific knowledge and technology were distorted and subverted for decades across the Soviet Union The Washington Post *Candid Science V: Conversations With Famous Scientists* Istvan Hargittai,Balazs Hargittai,2005-04-20 Candid Science V Conversations with Famous Scientists contains 36 interviews with well known scientists including 19 Nobel laureates Wolf Prize winners and other luminaries These in depth conversations provide a glimpse into some of the greatest achievements in science during the past few decades featuring stories of the discoveries and showing the human drama behind them The greatest scientists are brought into close human proximity as if readers were having a conversation with them This volume departs from the previous ones in that it contains interviews with mathematicians in addition to physicists chemists and biomedical scientists Another peculiarity of this volume is that it includes nine interviews from another project the collection of the late Clarence Larson former Commissioner of the Atomic Energy Commission and his wife Jane Larson Tapes **Learned Lives in England, 1900-1950** William C. Lubenow,2020 If objectivity was the great discovery of the nineteenth century uncertainty was the great discovery of the twentieth century

The Road to Stockholm István Hargittai,2002 The Nobel Prize is by far the highest recognition a scientist may receive and the only one with which the general public is familiar Its prestige has reached improbable heights At the same time a lot of myth surrounds the Nobel Prize and this is compounded by the fact that people tend to view scientists with some bewilderment This book introduces the process of selection of the laureates discusses the ingredients for scientific discovery and for getting recognition It reviews the decisive moments of scientific careers en route to the Nobel Prize points to characteristic features of the laureates the importance of mentors and venues in scientific careers and other components of success It also covers some discoverers and discoveries for whom and for which the Nobel Prize never materialized Whereas there is no general recipe for receiving the Nobel Prize there are common features of successful scientific careers The book reveals some information about the scientists lives and careers that may guide other scientists in increasing their chances of becoming more effective and better recognized players although it is not expected to help anyone to receive the Nobel Prize For the general reader The Road to Stockholm reveals the human face of scientists and the human side of their endeavours The Nobel Prize has served as inspiration for scientists and the general public for a hundred years this book discusses its problems and celebrates its triumphs **Hiroshima** Andrew J. Rotter,2008-02-28 The US decision to drop an atomic bomb on the Japanese city of Hiroshima on 6 August 1945 remains one of the most controversial events of the twentieth century However the controversy over the rights and wrongs of dropping the bomb has tended to obscure a number of fundamental and sobering truths about the development of this fearsome weapon The principle of killing thousands of enemy civilians from the air was already well established by 1945 and had been practised on numerous occasions by both sides during the

Second World War Moreover the bomb dropped on Hiroshima was conceived and built by an international community of scientists not just by the Americans Other nations including Japan and Germany were also developing atomic bombs in the first half of the 1940s albeit haphazardly Indeed it is difficult to imagine any combatant nation foregoing the use of the bomb during the war had it been able to obtain one The international team of scientists organized by the Americans just got there first As this fascinating new history shows the bomb dropped by a US pilot that hot August morning in 1945 was in many ways the world's offspring in both a technological and a moral sense And it was the world that would have to face its consequences strategically diplomatically and culturally in the years ahead

Handbook On Timoshenko-ehrenfest Beam And Uflyand- Mindlin Plate Theories Isaac E Elishakoff, 2019-10-29 The refined theory of beams which takes into account both rotary inertia and shear deformation was developed jointly by Timoshenko and Ehrenfest in the years 1911 1912 In over a century since the theory was first articulated tens of thousands of studies have been performed utilizing this theory in various contexts Likewise the generalization of the Timoshenko Ehrenfest beam theory to plates was given by Uflyand and Mindlin in the years 1948 1951 The importance of these theories stems from the fact that beams and plates are indispensable and are often occurring elements of every civil mechanical ocean and aerospace structure Despite a long history and many papers there is not a single book that summarizes these two celebrated theories This book is dedicated to closing the existing gap within the literature It also deals extensively with several controversial topics namely those of priority the so called second spectrum shear coefficient and other issues and shows vividly that the above beam and plate theories are unnecessarily overcomplicated In the spirit of Einstein's dictum Everything should be made as simple as possible but not simpler this book works to clarify both the Timoshenko Ehrenfest beam and Uflyand Mindlin plate theories and seeks to articulate everything in the simplest possible language including their numerous applications This book is addressed to graduate students practicing engineers researchers in their early career and active scientists who may want to have a different look at the above theories as well as readers at all levels of their academic or scientific career who want to know the history of the subject The Timoshenko Ehrenfest Beam and Uflyand Mindlin Plate Theories are the key reference works in the study of stocky beams and thick plates that should be given their due and remain important for generations to come since classical Bernoulli Euler beam and Kirchhoff Love theories are applicable for slender beams and thin plates respectively

Related Link s *The Birth of the Soviet Secret Police* Boris Volodarsky, 2023-05-31 This book is new in every aspect and not only because neither the official history nor an unofficial history of the KGB and its many predecessors and successors exists in any language In this volume the author deals with the origins of the KGB from the Tsarist Okhrana the first Russian secret political police to the OGPU Joint State Political Directorate one of the KGB predecessors between 1923 and 1934 Based on documents from the Russian archives the author clearly demonstrates that the Cheka and GPU OGPU were initially created to defend the revolution and not for espionage The Okhrana operated in both the Russian Empire and abroad against

the revolutionaries and most of its operations presented in this book are little known The same is the case with regards to the period after the Cheka was established in December 1917 until ten years later when Trotsky was expelled from the Communist Party and exiled and Stalin rose to power For the long period after the Revolution and up to the Second World War and indeed beyond until the death of Stalin the Cheka s main weapon was terror to create a general climate of fear in a population In the book the work of the Cheka and its successors against the enemies of the revolution is paralleled with British and American operations against the Soviets inside and outside of Russia For the first time the creation of the Communist International Comintern is shown as an alternative Soviet espionage organization for wide scale foreign propaganda and subversion operations based on the new revelations from the Soviet archives Here the early Soviet intelligence operations in several countries are presented and analyzed for the first time as are raids on the Soviet missions abroad The Bolshevik smuggling of the Russian imperial treasures is shown based on the latest available archival sources with misinterpretations and sometimes false interpretations in existing literature revised After the Bolshevik revolution Mansfield Smith Cumming the first chief of SIS undertook to set up an entirely new Secret Service organization in Russia During those first ten years events would develop as a non stop struggle between British intelligence within Russia and abroad and the Cheka later GPU OGPU Before several show spy trials in 1927 British intelligence networks successfully operated in Russia later moving to the Baltic capitals Finland and Sweden while young Soviet intelligence officers moved to London Paris Berlin and Constantinople Many of those operations from both sides are presented in the book for the first time in this ground breaking study of the dark world of the KGB **The Perversion Of Knowledge** Dr. Vadim J.

Birstein,2009-09-09 During the Soviet years Russian science was touted as one of the greatest successes of the regime Russian science was considered to be equal if not superior to that of the wealthy western nations The Perversion of Knowledge a history of Soviet science that focuses on its control by the KGB and the Communist Party reveals the dark side of this glittering achievement Based on the author s firsthand experience as a Soviet scientist and drawing on extensive Russian language sources not easily available to the Western reader the book includes shocking new information on biomedical experimentation on humans as well as an examination of the pernicious effects of Trofim Lysenko s pseudo biology Also included are many poignant case histories of those who collaborated and those who managed to resist focusing on the moral choices and consequences The text is accompanied by the author s own translations of key archival materials making this work an essential resource for all those with a serious interest in Russian history **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

Statistical and Thermal Physics M.D. Sturge, 2018-10-08 This book is based on many years of teaching statistical and thermal physics It assumes no previous knowledge of thermodynamics kinetic theory or probability the only prerequisites are an elementary knowledge of classical and modern physics and of multivariable calculus The first half of the book introduces the subject inductively but rigorously proceeding from the concrete and specific to the abstract and general In clear physical language the book explains the key concepts such as temperature heat entropy free energy chemical potential and distributions both classical and quantum The second half of the book applies these concepts to a wide variety of phenomena including perfect gases heat engines and transport processes Each chapter contains fully worked examples and real world problems drawn from physics astronomy biology chemistry electronics and mechanical engineering

Physics, Uspekhi ,1997

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