

Willy L. Ginzburg

On Superconductivity and Superfluidity

A Scientific Autobiography

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On Superconductivity And Superfluidity A Scientific Autobiography

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On Superconductivity And Superfluidity A Scientific Autobiography:

On Superconductivity and Superfluidity Vitaly L. Ginzburg, 2008-11-20 A Nobel Laureate presents his view of developments in the field of superconductivity superfluidity and related theory The book contains Ginzburg's amended version of the Nobel lecture in Physics 2003 as well as his expanded autobiography

Analogies In Physics And Life: A Scientific Autobiography Richard M Weiner, 2008-04-22 Analogies play a fundamental role in science To understand how and why at a given moment a certain analogy was used one has to know the specific historical circumstances under which the new idea was developed This historical background is never presented in scientific articles and quite rarely in books For the general reader the undergraduate or graduate student who learns the subject for the first time but also for the practitioner who looks for inspiration or who wants to understand what his colleague working in another field does these historical circumstances can be fascinating and useful This book discusses a series of analogy effects in subatomic physics the prediction and theory of which the author has contributed to in the last 50 years These phenomena are presented at a level accessible to the non specialist without formulae but with emphasis on the personal and historical background memoirs of meetings discussions and correspondence with collaborators and colleagues As such besides its scientific aspects the book constitutes an absorbing witness account of a holocaust survivor who subsequently illegally crossed the Iron Curtain to escape communist persecution

Military Masculinity and Postwar Recovery in the Soviet Union Erica L. Fraser, 2019-01-01 Catastrophic wartime casualties and postwar discomfort with the successes of women who had served in combat roles combined to shatter prewar ideals about what service meant for Soviet masculine identity The soldier had to be re imagined and resold to a public that had just emerged from the Second World War and a younger generation suspicious of state control In doing so Soviet military culture wrote women out and attempted to re establish soldiering as the premier form of masculinity in society *Military Masculinity and Postwar Recovery in the Soviet Union* combines textual and visual analysis as well as archival research to highlight the multiple narratives that contributed to rebuilding military identities Each chapter visits a particular site of this reconstruction including debates about conscription and evasion appropriate role models for cadets misogynist military imagery in cartoons the fraught militarized workplaces of nuclear physicists and the first cohort of cosmonauts who represented the completion of the project to rebuild militarized masculinity

A Mind Over Matter Andrew Zangwill, 2021-01-08 *A Mind Over Matter* is a biography of the Nobel prize winner Philip W Anderson a person widely regarded as one of the most accomplished and influential physicists of the second half of the twentieth century Anderson 1923 2020 was a theoretician who specialized in the physics of matter including window glass and metals magnets and semiconductors liquid crystals and superconductors More than any other single person Anderson transformed the patchwork subject of solid state physics into the deep subtle and coherent discipline known today as condensed matter physics Among his many world class research achievements Anderson discovered an aspect of wave physics that had been

missed by all previous scientists going back to Isaac Newton He became a public figure when he testified before Congress to oppose its funding of an expensive project intended exclusively for particle physics research Over the years he published many articles designed to influence a broad audience about issues where science impacted public policy and culture Anderson grew up in the American mid west was educated at Harvard and rose to the pinnacle of his profession during the first decade of his thirty five career as a theoretical physicist at Bell Telephone Laboratories Almost uniquely he spent many years working half time as a professor at the University of Cambridge and at Princeton University The outspoken Anderson enjoyed broad influence outside of physics when he helped develop and champion the concepts of emergence and complexity as organizing principles to help attack very difficult problems in technically challenging disciplines *Quantum Tunneling of Josephson Vortices in High-Impedance Long Junctions* Wildermuth, Matthias Micha, 2023-09-11 In the last decades superconducting devices have emerged as a promising platform for quantum technologies including quantum sensing and quantum computing Their key elements are Josephson junctions which allow for coherent supercurrent tunneling between two weakly linked superconductors If such a junction is extended in one direction to a long junction the superconducting phase difference can vary in space and time and may allow for quantized phase windings that drive supercurrent vortices

Scientific Realism and the Quantum Steven French, Juha Saatsi, 2020-02-13 Quantum theory is widely regarded as one of the most successful theories in the history of science It explains a hugely diverse array of phenomena and is a natural candidate for our best representation of the world at the level of fundamental physics But how can the world be the way quantum theory says it is It is famously unclear what the world is like according to quantum physics which presents a serious problem for the scientific realist who is committed to regarding our best theories as more or less true The present volume canvasses a variety of responses to this problem from restricting or revising realism in different ways to exploring entirely new directions in the lively debate surrounding realist interpretations of quantum physics Some urge us to focus on new formulations of the theory itself while others examine the status of scientific realism in the further context of quantum field theory Each chapter is written by a renowned specialist in the field and is aimed at graduate students and researchers in both physics and the philosophy of science Together they offer a range of illuminating new perspectives on this fundamental debate and exemplify the fruitful interaction between physics and philosophy **About Science, Myself and Others** V.L. Ginzburg, 2004-10-31 In *About Science Myself and Others* Vitaly Lazarevich Ginzburg co recipient of the 2003 Nobel Prize in Physics and Editor of the review journal *Physics Uspekhi* provides an insight into modern physics the lives and works of other prominent physicists he has known and insight into his own life and views on physics and beyond Divided into three parts the book starts with a review of the key problems in contemporary physics astrophysics and cosmology examining their historical development and why they pose such a challenge to today's physicists and for society Part One also includes details of some of Professor Ginzburg's work including superconductivity and superfluidity Part Two encompasses several articles on the

lives and works of several prominent physicists including the author The third part is a collection of articles that provide a personal view of the author describing his personal views and recollections on a range of wider topics Taken together this collection of articles creates an enjoyable review of physics its philosophy and key players in its modern development in the 20th Century Undoubtedly it will be an enjoyable read for professional physicists and non scientists alike **Physics,**

Uspekhi ,2006 **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 The British National Bibliography Arthur James Wells,2009

Condensazione Di Bose-Einstein Nei Gas Atomici M. Inguscio,S. Stringari,Carl Edwin Wieman,1999 Although first proposed by Einstein in 1924 Bose Einstein condensation BEC in a gas was not achieved until 1995 when using a combination of laser cooling and trapping and magnetic trapping and evaporation it was first observed in rubidium and then in lithium and sodium cooled down to extremely low temperatures This book brought together many leaders in both theory and experiment on Bose Einstein condensation in gases Their lectures provided a detailed coverage of the experimental techniques for the creation and study of BEC as well as the theoretical foundation for understanding the properties of this novel system This volume provides the first systematic review of the field and the many developments that have taken place in the past three years True Genius Vicki Daitch,Lillian Hoddeson,2002-10-28 What is genius Define it Now think of scientists who embody the concept of genius Does the name John Bardeen spring to mind Indeed have you ever heard of him Like so much in modern life immediate name recognition often rests on a cult of personality We know Einstein for example not just for his tremendous contributions to science but also because he was a character who loved to mug for the camera And our continuing fascination with Richard Feynman is not exclusively based on his body of work it is in large measure tied to his flamboyant nature and offbeat sense of humor These men and their outsize personalities have come to erroneously symbolize the true nature of genius and creativity We picture them born brilliant instantly larger than life But is that an accurate picture of genius What of others who are equal in stature to these icons of science but whom history has awarded only a nod because they did not readily engage the public Could a person qualify as a bona fide genius if he was a regular Joe The answer may rest in the story of John Bardeen John Bardeen was the first person to have been awarded two Nobel Prizes

in the same field He shared one with William Shockley and Walter Brattain for the invention of the transistor But it was the charismatic Shockley who garnered all the attention primarily for his Hollywood ways and notorious views on race and intelligence Bardeen's second Nobel Prize was awarded for the development of a theory of superconductivity a feat that had eluded the best efforts of leading theorists including Albert Einstein Neils Bohr Werner Heisenberg and Richard Feynman Arguably Bardeen's work changed the world in more ways than that of any other scientific genius of his time Yet while every school child knows of Einstein few people have heard of John Bardeen Why is this the case Perhaps because Bardeen differs radically from the popular stereotype of genius He was a modest mumbling Midwesterner an ordinary person who worked hard and had a knack for physics and mathematics He liked to picnic with his family collaborate quietly with colleagues or play a round of golf None of that was newsworthy so the media and consequently the public ignored him John Bardeen simply fits a new profile of genius Through an exploration of his science as well as his life a fresh and thoroughly engaging portrait of genius and the nature of creativity emerges This perspective will have readers looking anew at what it truly means to be a genius

From the Atomic Bomb to the Landau Institute Isaak M. Khalatnikov, 2012-05-31 The book is an expanded autobiography of the famous theoretical physicist Isaak Khalatnikov He worked together with L D Landau at the Institute for Physical Problems lead by P L Kapitza He is the co author of L D Landau in a number of important works They worked together in the frame of the so called Nuclear Bomb Project After the death of L D Landau I M Khalatnikov initiated the establishment of the Institute for Theoretical Physics named in honour of L D Landau within the USSR Academy of Sciences He headed this institute from the beginning as its Director The institute inherited almost all traditions of the Landau scientific school and played a prominent role in the development of theoretical physics So this is a story about how the institute was created how it worked and about the life of the physicists in the golden age of the Soviet science A separate chapter is devoted to today's life of the institute and the young generation of physicists working now in science It is an historically interesting book on the development of Soviet and Russian science and presents the background of the Soviet nuclear bomb program in the cold war age In war times Khalatnikov was a chief of the military staff of nuclear research He writes about the internal conditions of Soviet society the way of operating of the Soviet authorities and ways for scientists to interact with them It gives many interesting insights into the development of superconductivity and superfluidity The book is written by the most experienced and best informed person among the few living Russian scientists in the environment of Landau Many stories of the book were never published before and considered as top secret *American Book Publishing Record Cumulative, 1950-1977: Title index* R.R. Bowker Company. Department of Bibliography, 1978

Physics In A Mad World Misha Shifman, 2015-08-28 This book tells captivating stories of misadventures of two renowned theoretical physicists in the Soviet Union The first part is devoted to Friedrich Fritz Houtermans an outstanding Dutch Austrian German physicist who was the first to suggest that the source of stars energy is thermonuclear fusion and also made a number of other

important contributions to cosmochemistry and geochemistry In 1935 Houtermans a German communist in an attempt to save his life from Hitler's Gestapo fled to the Soviet Union He took up an appointment at the Kharkov Physico Technical Institute working there for two years with the Russian physicist Valentin P Fomin In the Great Purge of 1937 Houtermans was arrested in December by the NKVD Soviet Secret Police KGB's predecessor He was tortured and confessed to being a Trotskyist plotter and German spy out of fear of threats against his wife Charlotte However Charlotte had already escaped from the Soviet Union to Denmark after which she went to England and finally the USA As a result of the Hitler Stalin Pact of 1939 Houtermans was turned over to the Gestapo in May 1940 and imprisoned in Berlin The second part consists of two essays that narrate the life story of Yuri Golfand one of the codiscoverers of supersymmetry a major discovery in theoretical physics in the 20th century In 1973 just two years after the publication of his seminal paper he was fired from the Lebedev Physics Institute in Moscow Because of his Jewish origin he could find no job Under such circumstances he applied for an exit visa to Israel but his application was denied Yuri Golfand became a refusnik and joined the Human rights movement along with two other prominent physicists Andrei Sakharov and Yuri Orlov To earn his living he had to do manual work repeatedly being intimidated by KGB Only 18 years later shortly before the demise of the Soviet Union did he obtain permission to leave the country emigrating to Israel in 1990 These personal life stories of two outstanding theorists are intertwined with the tragedies of the 20th century and make for compelling reading

Fritz London Kostas Gavroglu,1995-05-11 Fritz London was one of the twentieth century's key figures in the development of theoretical physics A quiet and self effacing man he was one of the founders of quantum chemistry and was the first to give a phenomenological explanation of superconductivity This thoroughly researched biography gives a detailed account of London's life and work in Munich Berlin Oxford Paris and finally in the United States Covering a fascinating period in the development of theoretical physics and containing an appraisal of London's work by the late John Bardeen this book will be of great interest to physicists chemists and to anyone interested in the history of science

Forthcoming Books Rose Arny,1998 **Current Book Review Citations** ,1977 Subject Guide to Books in Print ,1975 **Superfluidity and Superconductivity** David R. Tilley,John Tilley,1974

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