

Michael Eckert

Arnold Sommerfeld

Science, Life and Turbulent Times
1868–1951

Arnold Sommerfeld Science Life And Turbulent Times 1868 1951

Barry R. Masters



Arnold Sommerfeld Science Life And Turbulent Times 1868 1951:

Arnold Sommerfeld Michael Eckert, 2013-06-24 The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld 1868 1951 Although Sommerfeld is famous as a quantum theorist for the elaboration of the semi classical atomic theory Bohr Sommerfeld model Sommerfeld's fine structure constant his role in the history of modern physics is not confined to atoms and quanta Sommerfeld left his mark in the history of mathematics fluid mechanics a number of physical subdisciplines and in particular as founder of a most productive school Peter Debye Wolfgang Pauli Werner Heisenberg Linus Pauling and Hans Bethe were his pupils to name only the Nobel laureates among them This biography is to a large extent based on primary source material correspondence diaries unpublished manuscripts It should be of particular interest to students who are keen to know more about the historical roots of modern science Sommerfeld lived through turbulent times of German history Wilhelmian Empire Weimar Republic Nazi period His life therefore illustrates how science and scientists perform in changing social environments From this perspective the biography should also attract readers with a general interest in the history of science and technology

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Voices from Exile, 2015-11-24 The sixteen essays in this volume are a tribute to Hamish Ritchie's deep interest in exile as a literary and historical phenomenon The first eight focus on the British and Irish context including studies of J. R. J. Kuczynski and his family Martin Miller Lilly Kann Hermann Sinsheimer Albin Stuebs Ludwig Hopf and Paul Bondy as well as contributions on the Association of Jewish Refugees and the exile experience as reflected in Klaus Mann's *Der Vulkan* The following four contributions widen the discussion to encompass Germany the Netherlands Austria and Yugoslavia by focusing on the diaries of Anne Frank and Etty Hillesum the early poetry of Bertolt Brecht and works by Vladimir Vertlib Aleksandar Ajzinberg and David Albahari The historical dimension is deepened with contributions on William Joyce Joseph Jonas the marginalisation of the mass emigration of the Jews within German memory and the exile of princesses for whom until recent

times marriage often meant a life far from home

Establishing Quantum Physics in Munich Michael

Eckert,2020-12-15 This book traces the history of Arnold Sommerfeld's famous nursery of theoretical physics at the University of Munich and demonstrates the centrality of developing personal and institutional networks for the emergence of quantum theory Sommerfeld originally a mathematician with little interest in theoretical physics was a somewhat unlikely choice for a chair of theoretical physics when he was appointed in 1906 However he quickly reoriented his research focus towards physics fostering a keen interest in experimental research Possibly even more important for the development of quantum theory in the coming years was his exceptional talent as a charismatic teacher and prolific networker which turned Munich into a central node in the fast growing network of quantum physicists in the 1920s It is no coincidence that the two most talented child prodigies of 1920s quantum physics Wolfgang Pauli and Werner Heisenberg were his students nor that by the end of the decade about a dozen of Sommerfeld's former disciples held chairs in theoretical physics The book is directed at historians of science and physics as well as all those interested in the history of science diplomacy and networking The book is part of a series of publications on the early network of quantum physics These works emerged from an expansive study on the quantum revolution as a major transformation of physical knowledge undertaken by the Max Planck Institute for the History of Science and the Fritz Haber Institute 2006 2012 For more on this project see the dedicated Feature Story The Networks of Early Quantum Theory at the Max Planck Institute for the History of Science <https://www.mpiwg-berlin.mpg.de/feature-story/networks-early-quantum-theory>

An Irish Sanctuary Gisela Holfter,Horst
Dickel,2016-12-19 The monograph provides the first comprehensive detailed account of German speaking refugees in Ireland 1933 1945 where they came from immigration policy towards them and how their lives turned out in Ireland and afterwards Thanks to unprecedented access to thousands of files of the Irish Department of Justice all still officially closed as well as extensive archive research in Ireland Germany England Austria as well as the US and numerous interviews it is possible for the first time to give an almost complete overview of how many people came how they contributed to Ireland how this fits in with the history of migration to Ireland and what can be learned from it While Exile studies are a well developed research area and have benefited from the work of research centres and archives in Germany Austria Great Britain and the USA Frankfurt M Leipzig Hamburg Berlin Innsbruck Graz Vienna London and SUNY Albany and the Leo Baeck Institutes Ireland was long neglected in this regard Instead of the usual narrative of no one was let in or only a handful came to Ireland the authors identified more than 300 refugees through interviews and intensive research in Irish German and Austrian archives German speaking exiles were the first main group of immigrants that came to the young Irish Free State from 1933 onwards and they had a considerable impact on academic industrial and religious developments in Ireland

The Rise of Climate Science Gerald R. North,2020-10-21 In a career spanning four decades Gerald R North contributed groundbreaking research that continues to shape the modern field of climate science However the route he has taken was full of surprising twists and

turns that included hate mail eavesdropping by the KGB and sometimes acrimonious debate with climate change deniers North's significant contributions to the field include his innovative toy model analysis of climate change based on ingeniously simplified models and his lead proposal for and successful approval of the Tropical Rainfall Measuring Mission TRMM satellite Launched in 1997 the TRMM's purpose was to collect data on the global climate system The TRMM operated successfully for 17 years before it was deactivated in 2015 In *The Rise of Climate Science* North recounts in detail his life in the vanguard of modern climate science He offers an insider look at the academic research and government initiatives around global warming and what that means for the planet He includes stories of conversations with top Soviet climate scientists at the height of the Cold War in the late 1970s complete with clandestine electronic surveillance He also describes the experience of testifying before Congress and engaging in public exchanges with those who doubted the reality of the phenomenon his research field described Climatology today has advanced into a mature phase This book is an important contribution to understanding its development in the twentieth century and adds a distinctly human face and sensibility to the ongoing societal conversation around climate change and its implications for our future *The Academic World in the*

Era of the Great War Marie-Eve Chagnon,Tomás Irish,2017-10-17 This book examines the ways in which scholarly expertise was mobilized during the First World War and the consequences of this for the inter connected academic world that had developed in the late nineteenth century Adopting a strong international approach the contributors to this volume examine the impact of the War on individuals institutions and disciplines cumulatively demonstrating the strong afterlife of conflict for scholarly practices and academic communities across Europe and North America in the decades following the cessation of the Great War **Development Of Mathematics Between The World Wars, The: Case Studies, Examples And**

Analyses Martina Becvarova,2021-05-14 *The Development of Mathematics Between the World Wars* traces the transformation of scientific life within mathematical communities during the interwar period in Central and Eastern Europe specifically in Germany Russia Poland Hungary and Czechoslovakia Throughout the book in depth mathematical analyses and examples are included for the benefit of the reader World War I heavily affected academic life In European countries many talented researchers and students were killed in action and scientific activities were halted to resume only in the postwar years However this inhibition turned out to be a catalyst for the birth of a new generation of mathematicians for the emergence of new ideas and theories and for the surprising creation of new and outstanding scientific schools The final four chapters are not restricted to Central and Eastern Europe and deal with the development of mathematics between World War I and World War II After describing the general state of mathematics at the end of the 19th century and the first third of the 20th century three case studies dealing with selected mathematical disciplines are presented set theory potential theory combinatorics in a way accessible to a broad audience of mathematicians as well as historians of mathematics **Optical**

Technology Transfer and Innovation in Ophthalmic Imaging Barry R. Masters,2025-10-30 This book presents a new

view of symbiotic technology transfer between different fields in the optical sciences For example adaptive optics were initially developed for military research programs seeking to correct the effects of atmospheric fluctuations on telescopes The technology was subsequently transferred to optical microscopes and then finally used in ophthalmic imaging devices to image photoreceptors in the living human retina This book examines various recent and historical technology transfers among the optical sciences and attempts to answer the following questions What are the mathematical and the physical foundations of these technology advances What events and influences military requirements new journals new funding sources the internet etc made the technologies and their transfer possible What was the impact of technology transfer on the development of optical science What role did the human eye and visual system play in technology development This book examines how innovations propagate from one field to another illustrating the benefits of cross disciplinary collaboration This book is about curiosity skepticism innovation and creativity in science and technology and explores practices that advance innovation and those that inhibit innovation Analyses of some selected pertinent case studies highlight the roles of unique individuals who were able to make the journey from initial concept to widespread clinical acceptance of their instruments What are the common factors of their education experiences and approaches that resulted in their inventions and innovations This book is intended to inspire and encourage those who dream of advancing the diagnostics and the treatment of diseases through new medical devices It also addresses budding startup dreamers venture capitalists research directors and funding agency administrators by providing new insights into practices that promote and inhibit innovation This book should be of interest to scientists and researchers in many fields of optics as well as technical policy makers at funding institutions

Schrodinger In Oxford David C Clary, 2022-03-07 Clary's account makes for fascinating reading not least because of its clear style and copious citation of primary sources and original scientific articles The author provides a compelling narrative of Schrödinger's departure in 1933 from a highly eminent position at the University of Berlin to a precarious untenured position at Magdalen College with political and scientific considerations deftly woven together Read Full Review

ScienceErwin Schrödinger was one of the greatest scientists of all time but it is not widely known that he was a Fellow at Magdalen College Oxford in the 1930s This book is an authoritative account of Schrödinger's time in Oxford by Sir David Clary an expert on quantum chemistry and a former President of Magdalen College who describes Schrödinger's remarkable life and scientific contributions in a language that can be understood by all Through access to many unpublished manuscripts the author reveals in unprecedented detail the events leading up to Schrödinger's sudden departure from Berlin in 1933 his arrival in Oxford and award of the Nobel Prize his dramatic escape from the Nazis in Austria to return to Oxford and his urgent flight from Belgium to Dublin at the start of the Second World War The book presents many acute observations from Schrödinger's wife Anny and his daughter Ruth who was born in Oxford and became an acquaintance of the author in the last years of her life It also includes a remarkable letter sent to Schrödinger in Oxford from Adolf Hitler thanking him for his

services to the state as a professor in Berlin Schrödinger's intense interactions with other great scientists who were also refugees during this period including Albert Einstein and Max Born are examined in the context of the chaotic political atmosphere of the time Fascinating anecdotes of how this flamboyant Austrian scientist interacted with the President and Fellows of a highly traditional Oxford College in the 1930s are a novel feature of the book A gripping and intimate narrative of one of the most colourful scientists in history Schrödinger in Oxford explains how his revolutionary breakthrough in quantum mechanics has become such a central feature in 21st century science

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