

# Constance Reid **Courant**

in Göttingen and New York  
The Story of an Improbable Mathematician



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# Courant In Göttingen And New York The Story Of An Improbable Mathematician

**Alexander Soifer**



## **Courant In Göttingen And New York The Story Of An Improbable Mathematician:**

Courant in Göttingen and New York Constance Reid, 1976 Biographical account of mathematician Richard Courant who had been removed by the Nazis from his position as director of the internationally famous mathematics institute in Göttingen and emigrated to the United States and built another mathematics institute in New York **Courant in Göttingen and New York** Constance Reid, 1976-10-25 Biographical account of mathematician Richard Courant who had been removed by the Nazis from his position as director of the internationally famous mathematics institute in Göttingen and emigrated to the United States and built another mathematics institute in New York *Courant* Constance Reid, 2013-06-05 a story of great mathematicians and their achievements of practical successes and failures and of human perfidy and generosity this is one of the still too rare occasions in which mathematicians are shown as frail flesh and blood creatures a very worthwhile book CHOICE A Mathematician's Journeys Alexander Jones, Christine Proust, John M. Steele, 2016-02-03 This book explores facets of Otto Neugebauer's career his impact on the history and practice of mathematics and the ways in which his legacy has been preserved or transformed in recent decades looking ahead to the directions in which the study of the history of science will head in the twenty first century Neugebauer more than any other scholar of recent times shaped the way we perceive premodern science Through his scholarship and influence on students and collaborators he inculcated both an approach to historical research on ancient and medieval mathematics and astronomy through precise mathematical and philological study of texts and a vision of these sciences as systems of knowledge and method that spread outward from the ancient Near Eastern civilizations crossing cultural boundaries and circulating over a tremendous geographical expanse of the Old World from the Atlantic to India *Courant in Göttingen and New York* Constance Reid, 1976-10-25 Biographical account of mathematician Richard Courant who had been removed by the Nazis from his position as director of the internationally famous mathematics institute in Göttingen and emigrated to the United States and built another mathematics institute in New York *The Jewish Mathematical Diaspora from Fascist Italy* Erika Luciano, 2025-08-04 Delving into previously undisclosed archival sources this monograph offers a meticulously researched portrayal of Italian Jewish mathematicians amidst the turmoil sparked by the 1938 Italian Racial Laws Forced migration due to fascist anti-Semitism saw the exodus of numerous Jewish intellectuals Highlighting the experiences of select academic mathematicians such as Guido Fubini Gino Fano Beniamino Segre Alessandro Terracini and others who fled Italy this work casts a light on a diaspora that presents unique aspects thanks to pre-existing networks of international scientific solidarity Despite challenges stemming from language society and institutions their narratives reveal the profound human dimensions of adversity choice and camaraderie Suitable for scholars and students of 20th century history as well as a wider audience intrigued by Italy's complex past these pages offer invaluable insights into a dark chapter of the country's history **A History of Mathematics in the United States and Canada** David E. Zitarelli, Della Dumbaugh, Stephen F. Kennedy, 2022-07-28 This is

the first truly comprehensive and thorough history of the development of a mathematical community in the United States and Canada This second volume starts at the turn of the twentieth century with a mathematical community that is firmly established and traces its growth over the next forty years at the end of which the American mathematical community is pre eminent in the world In the preface to the first volume of this work Zitarelli reveals his animating philosophy I find that the human factor lends life and vitality to any subject History of mathematics in the Zitarelli conception is not just a collection of abstract ideas and their development It is a community of people and practices joining together to understand perpetuate and advance those ideas and each other Telling the story of mathematics means telling the stories of these people their accomplishments and triumphs the institutions and structures they built their interpersonal and scientific interactions and their failures and shortcomings One of the most hopeful developments of the period 1900 1941 in American mathematics was the opening of the community to previously excluded populations Increasing numbers of women were welcomed into mathematics many of whom including Anna Pell Wheeler Olive Hazlett and Mayme Logsdon are profiled in these pages Black mathematicians were often systemically excluded during this period but in spite of the obstacles Elbert Frank Cox Dudley Woodard David Blackwell and others built careers of significant accomplishment that are described here The effect on the substantial community of European immigrants is detailed through the stories of dozens of individuals In clear and compelling prose Zitarelli Dumbaugh and Kennedy spin a tale accessible to experts general readers and anyone interested in the history of science in North America     The New Era in American Mathematics, 1920-1950 Karen Hunger

Parshall, 2022-02-22 The 1920s witnessed the birth of a serious mathematical research community in America Prior to this mathematical research was dominated by scholars based in Europe but World War I had made the importance of scientific and technological development clear to the American research community resulting in the establishment of new scientific initiatives and infrastructure Physics and chemistry were the beneficiaries of this renewed scientific focus but the mathematical community also benefitted and over time began to flourish Over the course of the next two decades despite significant obstacles this constellation of mathematical researchers programs and government infrastructure would become one of the strongest in the world In this meticulously researched book Karen Parshall documents the uncertain but ultimately successful rise of American mathematics during this time Drawing on research carried out in archives around the country and around the world as well as on the secondary literature she reveals how geopolitical circumstances shifted the course of international mathematics She provides surveys of the mathematical research landscape in the 1920s 30s and 40s introduces the key players and institutions in mathematics at that time and documents the effect of the Great Depression and the second world war on the international mathematical community The result is a comprehensive account of the shift of mathematics center of gravity to the American stage     **Hilbert-Courant** Constance Reid, 1986-05-22 I am very pleased that my books about David Hilbert published in 1970 and Richard Courant published in 1976 are now being issued by Springer Verlag in a

single volume I have always felt that they belonged together Courant being as I have written the natural and necessary sequel to Hilbert the rest of the story To make the two volumes more compatible when published as one we have combined and brought up to date the indexes of names and dates Unfortunately we have had to omit Hermann Weyl's article on David Hilbert and his mathematical work but the interested reader can always find it in the hard back edition of Hilbert and in Weyl's collected papers At the request of a number of readers we have included a listing of all of Hilbert's famous Paris problems It was of course inevitable that we would give the resulting joint volume the title Hilbert Courant

**The Political Arena (1934-1961)**, 2013-10-22 Part I is devoted to Niels Bohr's mission to promote an open world between nations that is full sharing of information in the scientific and technical as well as in the cultural spheres the scientific and technical as well as in the cultural spheres He started his mission immediately upon escaping from Nazi occupied Denmark in the autumn of 1943 when he realized that the bomb was on the way to becoming a reality As he wrote in 1944 he considered that the existence of the atomic bomb would not only seem to necessitate but should also due to the urgency of mutual confidence facilitate the realization of an open world During the Second World War while being actively involved in the Allied atomic bomb project Bohr was able to obtain access to Prime Minister Churchill and President Roosevelt to promote his view After the war he continued his confidential approaches to the statesmen while publishing more generally oriented articles on the issue Although Bohr put in as much work in appeals to the statesmen as in his other writings they were not intended for publication This has called for the inclusion of a greater number than in earlier volumes of the Collected Works of previously unpublished documents as well as a particularly extensive historical introduction written by the editor The material adds up to a fascinating story of the political dedication and social responsibility of one of the major scientists of the twentieth century Part II documents Bohr's other social and political activities such as his long time presidency in the Royal Danish Academy of Sciences and Letters and his promotion of the peaceful uses of atomic energy Taking a broader approach than most of his other publications these occasional writings which are most often published versions of talks at public events are particularly well suited to present Bohr to the general public as a thinker as well as a person Niels Bohr Open World Atomic Bomb Project Science and Politics Collected Works Archival Documents Original Photographs

**David Hilbert and the Axiomatization of Physics (1898-1918)** L. Corry, 2013-06-29 David Hilbert 1862-1943 was the most influential mathematician of the early twentieth century and together with Henri Poincaré the last mathematical universalist His main known areas of research and influence were in pure mathematics algebra number theory geometry integral equations and analysis logic and foundations but he was also known to have some interest in physical topics The latter however was traditionally conceived as comprising only sporadic incursions into a scientific domain which was essentially foreign to his mainstream of activity and in which he only made scattered if important contributions Based on an extensive use of mainly unpublished archival sources the present book presents a totally fresh and comprehensive picture of Hilbert's intense original well informed and highly influential

involvement with physics that spanned his entire career and that constituted a truly main focus of interest in his scientific horizon His program for axiomatizing physical theories provides the connecting link with his research in more purely mathematical fields especially geometry and a unifying point of view from which to understand his physical activities in general In particular the now famous dialogue and interaction between Hilbert and Einstein leading to the formulation in 1915 of the generally covariant field equations of gravitation is adequately explored here within the natural context of Hilbert's overall scientific world view This book will be of interest to historians of physics and of mathematics to historically minded physicists and mathematicians and to philosophers of science

**Historiography of Mathematics in the 19th and 20th Centuries** Volker R. Remmert, Martina R. Schneider, Henrik Kragh Sørensen, 2016-12-08 This book addresses the historiography of mathematics as it was practiced during the 19th and 20th centuries by paying special attention to the cultural contexts in which the history of mathematics was written In the 19th century the history of mathematics was recorded by a diverse range of people trained in various fields and driven by different motivations and aims These backgrounds often shaped not only their writing on the history of mathematics but in some instances were also influential in their subsequent reception During the period from roughly 1880-1940 mathematics modernized in important ways with regard to its content its conditions for cultivation and its identity and the writing of the history of mathematics played into the last part in particular Parallel to the modernization of mathematics the history of mathematics gradually evolved into a field of research with its own journals societies and academic positions Reflecting both a new professional identity and changes in its primary audience various shifts of perspective in the way the history of mathematics was and is written can still be observed to this day Initially concentrating on major internal universal developments in certain sub disciplines of mathematics the field gradually gravitated towards a focus on contexts of knowledge production involving individuals local practices problems communities and networks The goal of this book is to link these disciplinary and methodological changes in the history of mathematics to the broader cultural contexts of its practitioners namely the historians of mathematics during the period in question

[The Oxford Handbook of the History of Mathematics](#) Eleanor Robson, Jacqueline Stedall, 2009 This handbook explores the history of mathematics addressing what mathematics has been and what it has meant to practise it 36 self contained chapters provide a fascinating overview of 5000 years of mathematics and its key cultures for academics in mathematics historians of science and general historians

**Life in a Jewish Family: An Autobiography, 1891-1916 (The Collected Works of Edith Stein, vol. 1)** Edith Stein (Teresa Benedicta of the Cross), 2017-11-24 This initial volume of the Collected Works of Edith Stein offers for the first time in English the unabridged biography of Edith Stein Teresa Benedicta of the Cross depicting her life as a child and young adult Her text ends abruptly because the Nazi SS arrested then deported her to the Auschwitz concentration camp in 1942 The ebook version contains a fully linked Index Map and List of Places Edith Stein is one of the most significant German Jewish women of the 20th century

At the age of twenty five she became the first assistant to Edmund Husserl the founder of Phenomenology She was much in demand as a writer and lecturer after her conversion from atheism to Catholicism Later as a Discalced Carmelite nun she maintained her intellectual pursuits until she like so many others became a victim of the Nazi persecution that raged across Eastern Europe By making this landmark work available in English the Institute of Carmelite Studies provides an eye witness account of persons and activities on the scene at the time when psychology and philosophy became separate disciplines In addition to photographs and a map this volume is enhanced with a preface the foreword and afterword notes and a list of places associated with Edith Stein s life It is our aim that these together with Edith Stein s text may help bring into relief the many background details of the rich autobiographical work she has left us Chosen Best Spirituality Book of 1986 by the Catholic Press Association

**The Scholar and the State: In Search of Van der Waerden** Alexander Soifer, 2014-11-12

Bartel Leendert van der Waerden made major contributions to algebraic geometry abstract algebra quantum mechanics and other fields He liberally published on the history of mathematics His 2 volume work Modern Algebra is one of the most influential and popular mathematical books ever written It is therefore surprising that no monograph has been dedicated to his life and work Van der Waerden s record is complex In attempting to understand his life the author assembled thousands of documents from numerous archives in Germany the Netherlands Switzerland and the United States which revealed fascinating and often surprising new information about van der Waerden Soifer traces Van der Waerden s early years in a family of great Dutch public servants his life as professor in Leipzig during the entire Nazi period and his personal and professional friendship with one of the great physicists Werner Heisenberg We encounter heroes and villains and a much more numerous group in between these two extremes One of them is the subject of this book Soifer s journey through a long list of archives combined with an intensive correspondence had uncovered numerous details of Van der Waerden s German intermezzo that raised serious questions and reproaches Dirk van Dalen Philosophy Utrecht University Professor Soifer s book implicates the anthropologists and culture historians core interest in the evolution of culture and in the progress of human evolution itself on this small contested planet James W Fernandez Anthropology University of Chicago The book is fascinating Professor Soifer has done a great service to the discipline of history as well as deepening our understanding of the 20th century Peter D Johnson Jr Mathematics Auburn University This book is an important contribution to the history of the twentieth century and reads like a novel with an ever fascinating cast of characters Harold W Kuhn Mathematics Princeton University This is a most impressive and important book It is written in an engaging very personal style and challenges the reader s ability of moral and historical judgment While it is not always written in the style of objective professional historiography it satisfies very high standards of scholarly documentation Indeed the book contains a wealth of source material that allows the reader to form a highly detailed picture of the events and personalities discussed in the book As an exemplar of historical writing in a broader sense it can compete with any other historical book Moritz Epple History of

Mathematics Frankfurt University      *Science and Conscience* Jost Lemmerich, 2011-08-10 James Franck 1882 1964 was one of the twentieth century's most respected scientists known both for his contributions to physics and for his moral courage. During the 1920s Franck was a prominent figure in the German physics community. His research into the structure of the atom earned him the Nobel Prize in Physics in 1925. After the Nazis seized power in 1933, Franck resigned his professorship at Göttingen in protest against anti-Jewish policies. He soon emigrated to the United States where at the University of Chicago he began innovative research into photosynthesis. When the Second World War began, Franck was recruited for the Manhattan Project. With Enrico Fermi and Leo Szilard he created a controlled nuclear chain reaction which led to the creation of a nuclear weapon. During the final months of the war, however, Franck grew concerned about the consequences of using such a weapon. He became the principal author of the celebrated Franck Report which urged Truman not to use the atomic bomb and warned that a nuclear arms race against the Soviet Union would be an inevitable result. After the War, Franck turned his attention back to photosynthesis; his discoveries influenced chemistry as well as physics.

**Nuclear Forces** Silvan S. Schweber, 2012-06-18 A highly readable account tracing the future Nobel laureate through his formative years and up to the eve of World War II. The Wall Street Journal. On the fiftieth anniversary of Hiroshima, Nobel-winning physicist Hans Bethe called on his fellow scientists to stop working on weapons of mass destruction. What drove Bethe, the head of Theoretical Physics at Los Alamos during the Manhattan Project, to renounce the weaponry he had once worked so tirelessly to create? That is one of the questions answered by *Nuclear Forces*, a riveting biography of Bethe's early life and development as both a scientist and a man of principle. As Silvan Schweber follows Bethe from his childhood in Germany to laboratories in Italy and England and on to Cornell University, he shows how these differing environments were reflected in the kind of physics Bethe produced. Many of the young quantum physicists in the 1930s, including Bethe, had Jewish roots, and Schweber considers how Liberal Judaism in Germany helps explain their remarkable contributions. A portrait emerges of a man whose strategy for staying on top of a deeply hierarchical field was to tackle only those problems he knew he could solve. Bethe's emotional maturation was shaped by his father and by two women of Jewish background: his overly possessive mother and his wife, who would later serve as an ethical touchstone during the turbulent years he spent designing nuclear bombs. Situating Bethe in the context of the various communities where he worked, Schweber provides a full picture of prewar developments in physics that changed the modern world and of a scientist shaped by the unprecedented moral dilemmas those developments in turn created. Praise for *Nuclear Forces*: Schweber's account of Hans Bethe's life reveals the origins of a charismatic scientist grounded in the importance of his parents and his Jewish roots. Schweber recreates the social world that shaped the character of the last of the memorable young scientists who established the field of quantum mechanics. Publishers Weekly. *Nuclear Forces* is a carefully researched, historically and biographically insightful account of the development of a profession and of one of its leading representatives during a century in which physics and physicists played



key roles in scientific cultural political and military developments David C Cassidy author of *A Short History of Physics in the American Century* *The Physical Tourist* John S. Rigden, Roger H Stuewer, 2009-05-29 Travelers differ At one extreme are random travelers who see what they accidentally bump into At the other extreme are the lock step travelers who follow a banner or a red umbrella and look when and where a voice tells them to look Between these extremes are the guide book travelers who identify the whereabouts of those sites that interest them and they plan their sightseeing accordingly If a traveler s interests are captivated by the arts guide books can be very helpful For example the table of contents of a current guide book for travelers going to G many has sections on architecture art literature music and cinema The index gives page references for famous writers musicians and artists Yet while Germany was a dominate force in physical science during the 19th and into the 20th centuries and while the names and photos of prominent German physical scientists who worked in this period are sprinkled through the pages of textbooks only one scientist is m tioned by name Albert Einstein is identified as the most famous citizen of Ulm *A Richer Picture of Mathematics* David E. Rowe, 2018-02-13 Historian David E Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the Years Ago column of *The Mathematical Intelligencer* With topics ranging from ancient Greek mathematics to modern relativistic cosmology this collection conveys the impetus and spirit of Rowe s various and many faceted contributions to the history of mathematics Centered on the G ttingen mathematical tradition these stories illuminate important facets of mathematical activity often overlooked in other accounts Six sections place the essays in chronological and thematic order beginning with new introductions that contextualize each section The essays that follow recount episodes relating to the section s overall theme All of the essays in this collection with the exception of two appeared over the course of more than 30 years in *The Mathematical Intelligencer* Based largely on archival and primary sources these vignettes offer unusual insights into behind the scenes events Taken together they aim to show how G ttingen managed to attract an extraordinary array of talented individuals several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century *Hilbert Space Methods in Signal Processing* Rodney A. Kennedy, Parastoo Sadeghi, 2013-03-07 This lively and accessible book describes the theory and applications of Hilbert spaces and also presents the history of the subject to reveal the ideas behind theorems and the human struggle that led to them The authors begin by establishing the concept of countably infinite which is central to the proper understanding of separable Hilbert spaces Fundamental ideas such as convergence completeness and dense sets are first demonstrated through simple familiar examples and then formalised Having addressed fundamental topics in Hilbert spaces the authors then go on to cover the theory of bounded compact and integral operators at an advanced but accessible level Finally the theory is put into action considering signal processing on the unit sphere as well as reproducing kernel Hilbert spaces The text is interspersed with historical comments about central figures in the development of the theory which helps bring the subject to life

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