

From KANT *to* HILBERT

A Source Book
in the Foundations
of Mathematics

VOLUME I

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From Kant To Hilbert

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From Kant To Hilbert:

From Kant to Hilbert Volume 1 William Bragg Ewald, 2005-04-21 This two volume work brings together a comprehensive selection of mathematical works from the period 1707 1930 During this time the foundations of modern mathematics were laid and *From Kant to Hilbert* provides an overview of the foundational work in each of the main branches of mathematics with narratives showing how they were linked Now available as a separate volume **From Kant to Hilbert Volume 1** William Bragg Ewald, William Ewald, 1999 This two volume work provides an overview of this important era of mathematical research through a carefully chosen selection of articles They provide an insight into the foundations of each of the main branches of mathematics algebra geometry number theory analysis logic and set theory with narratives to show how they are linked *From Kant to Hilbert: a Source Book in the Foundations of Mathematics* William Ewald, 1996 **From Kant to Hilbert Volume 2** William Bragg Ewald, William Ewald, 1999 This two volume work brings together a comprehensive selection of mathematical works from the period 1707 1930 During this time the foundations of modern mathematics were laid and *From Kant to Hilbert* provides an overview of the foundational work in each of the main branches of mathematics with narratives showing how they were linked Now available as a separate volume **From Kant to Hilbert (2 Vol.)** W. B. Ewald, 2005 **From Kant to Hilbert** , 1996 *From Kant to Hilbert* William Ewald, 1999 *From Kant to Hilbert Volume 1* William Bragg Ewald, 2005-04-21 Immanuel Kant's Critique of Pure Reason is widely taken to be the starting point of the modern period of mathematics while David Hilbert was the last great mainstream mathematician to pursue important nineteenth century ideas This two volume work provides an overview of this important era of mathematical research through a carefully chosen selection of articles They provide an insight into the foundations of each of the main branches of mathematics algebra geometry number theory analysis logic and set theory with narratives to show how they are linked Classic works by Bolzano Riemann Hamilton Dedekind and Poincare are reproduced in reliable translations and many selections from writers such as Gauss Cantor Kronecker and Zermelo are here translated for the first time The collection is an invaluable source for anyone wishing to gain an understanding of the foundation of modern mathematics **From Kant to Hilbert** William Bragg Ewald (Jr.), 2023 *From Kant to Husserl* Charles Parsons, 2012-03-15 In *From Kant to Husserl* Charles Parsons examines a wide range of historical opinion on philosophical questions from mathematics to phenomenology Amplifying his early ideas on Kant's philosophy of arithmetic the author then turns to reflections on Frege Brentano and Husserl **From Kant to Hilbert** William Bragg Ewald, 1996 Part of a two volume set which contains principal texts on the foundations of mathematics from the late 18th century to the early 20th century Many essays are translated here into English for the first time **Logic from Kant to Russell** Sandra Lapointe, 2019-01-15 The scope and method of logic as we know it today eminently reflect the ground breaking developments of set theory and the logical foundations of mathematics at the turn of the 20th century Unfortunately little effort has been made to understand the idiosyncrasies of the philosophical

context that led to these tremendous innovations in the 19th century beyond what is found in the works of mathematicians such as Frege Hilbert and Russell This constitutes a monumental gap in our understanding of the central influences that shaped 19th century thought from Kant to Russell and that helped to create the conditions in which analytic philosophy could emerge The aim of *Logic from Kant to Russell* is to document the development of logic in the works of 19th century philosophers It contains thirteen original essays written by authors from a broad range of backgrounds intellectual historians historians of idealism philosophers of science and historians of logic and analytic philosophy These essays question the standard narratives of analytic philosophy's past and address concerns that are relevant to the contemporary philosophical study of language mind and cognition The book covers a broad range of influential thinkers in 19th century philosophy and analytic philosophy including Kant Bolzano Hegel Herbart Lotze the British Algebraists and Idealists Moore Russell the Neo Kantians and Frege

From Dedekind to Gödel Jaakko Hintikka, 2013-03-09 Discussions of the foundations of mathematics and their history are frequently restricted to logical issues in a narrow sense or else to traditional problems of analytic philosophy *From Dedekind to Gödel: Essays on the Development of the Foundations of Mathematics* illustrates the much greater variety of the actual developments in the foundations during the period covered The viewpoints that serve this purpose included the foundational ideas of working mathematicians such as Kronecker Dedekind Borel and the early Hilbert and the development of notions like model and modelling arbitrary function completeness and non Archimedean structures The philosophers discussed include not only the household names in logic but also Husserl Wittgenstein and Ramsey Needless to say such logically oriented thinkers as Frege Russell and Gödel are not entirely neglected either Audience Everybody interested in the philosophy and or history of mathematics will find this book interesting giving frequently novel insights

The Cambridge History of Philosophy in the Nineteenth Century (1790-1870) Allen W. Wood, Songsuk Susan Hahn, 2012-09-10 The latest volume in the Cambridge Histories of Philosophy series *The Cambridge History of Philosophy in the Nineteenth Century 1790-1870* brings together twenty nine leading experts in the field and covers the years 1790-1870 Their twenty eight chapters provide a comprehensive survey of the period organizing the material topically After a brief editor's introduction the book begins with three chapters surveying the background of nineteenth century philosophy followed by two on logic and mathematics two on nature and natural science five on mind and language including psychology the human sciences and aesthetics four on ethics three on religion seven on society including chapters on the French Revolution the decline of natural right political economy and social discontent and three on history which deal with historical method speculative theories of history and the history of philosophy

[Kyoto in Davos. Intercultural Readings of the Cassirer-Heidegger Debate](#), 2023-12-28 What does it mean to be human We invite the reader to discuss this most fundamental issue in philosophy and to do so in an intercultural framework The question of the human was the starting point for a legendary discussion between two German philosophers who met in Davos in 1929 We return to this historical event

and re imagine the debate between Martin Heidegger and Ernst Cassirer from a global perspective Generating twenty papers from elaborate discussions our authors contribute to the thought experiment by inviting the Japanese philosopher Nishida Kitar from Kyoto and other Japanese thinkers into the debate to overcome the challenge of Eurocentrism inherent to these historic days in Davos

Rethinking Logic: Logic in Relation to Mathematics, Evolution, and Method Carlo Cellucci, 2013-10-09 This volume examines the limitations of mathematical logic and proposes a new approach to logic intended to overcome them To this end the book compares mathematical logic with earlier views of logic both in the ancient and in the modern age including those of Plato Aristotle Bacon Descartes Leibniz and Kant From the comparison it is apparent that a basic limitation of mathematical logic is that it narrows down the scope of logic confining it to the study of deduction without providing tools for discovering anything new As a result mathematical logic has had little impact on scientific practice Therefore this volume proposes a view of logic according to which logic is intended first of all to provide rules of discovery that is non deductive rules for finding hypotheses to solve problems This is essential if logic is to play any relevant role in mathematics science and even philosophy To comply with this view of logic this volume formulates several rules of discovery such as induction analogy generalization specialization metaphor metonymy definition and diagrams A logic based on such rules is basically a logic of discovery and involves a new view of the relation of logic to evolution language reason method and knowledge particularly mathematical knowledge It also involves a new view of the relation of philosophy to knowledge This book puts forward such new views trying to open again many doors that the founding fathers of mathematical logic had closed historically trigger

Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersch University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell

University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes études Scientifiques

Gödel's Incompleteness Theorems

Dirk W. Hoffmann, 2024-08-30 In 1931 the mysterious sounding article On Formally Undecidable Propositions of Principia Mathematica and Related Systems I shook the mathematical world In this article Kurt Gödel proved two incompleteness theorems that have fundamentally changed our view of mathematics Gödel's theorems manifest that the concept of truth and the concept of provability cannot coincide Since their discovery the incompleteness theorems have attracted much attention and a flood of articles and books have been devoted to their striking consequences For good reasons however hardly any work deals with Gödel's article in its original form His complex lines of thought described with meticulous precision the many definitions and theorems and the now largely outdated notation turn Gödel's historical masterpiece into a difficult read This book explores Gödel's original proof in detail All individual steps are carefully explained and illustrated with numerous examples However this book is more than just an annotated version of the historical article as the proper understanding of Gödel's work requires a solid grasp of history Thus numerous excursions take the reader back to the beginning of the twentieth century It was the time when mathematics experienced one of its greatest crises when type theory and axiomatic set theory were taking shape and Hilbert's formalistic logic and Brouwer's intuitionistic mathematics were openly confronting each other This book is the revised translation of the author's German language book Die Gödel'schen

Unvollständigkeitssatz **From Kant to Hilbert: George Berkeley ; Colin MacLaurin ; Jean LeRond D'Alembert ; Immanuel Kant ; Johann Heinrich Lambert ; Bernard Bolzano ; Carl Friedrich Gauss ; Duncan Gregory ; Augustus de Morgan ; William Rowan Hamilton ; George Boole ; James Joseph Sylvester ; William Kingdon Clifford ; Arthur Cayley ; Charles Sanders Peirce ,1996** The Theory of Gödel Carlo Cellucci,2022-11-21 This book presents Gödel's incompleteness theorems and the other limitative results which are most significant for the philosophy of mathematics. Results are stated in the form most relevant for use in the philosophy of mathematics. An appendix considers their implications for Hilbert's Program for the foundations of mathematics. The text is self-contained, all notions being explained in full detail, but of course previous exposure to the very first rudiments of mathematical logic will help.

From Kant To Hilbert Book Review: Unveiling the Power of Words

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