

From Frege to Gödel

A Source Book in Mathematical Logic, 1879-1931

Frege, Peano, Dedekind, Burali-Forti, Cantor, Padoa, Russell, Hilbert,
Zermelo, Richard, König, Whitehead and Russell, Wiener, Löwenheim,
Skolem, Post, Fraenkel, Brouwer, von Neumann, Schönfinkel,
Kolmogorov, Finsler, Weyl, Bernays, Ackermann, Herbrand, Gödel

Edited by Jean van Heijenoort

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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His complex lines of thought described with meticulous precision the many definitions and theorems and the now largely outdated notation turn Gödel's historical masterpiece into a difficult read This book explores Gödel's original proof in detail All individual steps are carefully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 second edition of the author's German language book Die Gödel'schen Unvollständigkeitssätze [Gödel's Theorems and Zermelo's Axioms](#) Lorenz Halbeisen, Regula Krapf, 2025-06-11 This book provides a concise and self contained introduction to the foundations of mathematics The first part covers the fundamental notions of mathematical logic including logical axioms formal proofs and the basics of model theory Building on this in the second and third part of the book the authors present detailed proofs of Gödel's classical completeness and incompleteness theorems In particular the book includes a full proof of Gödel's second incompleteness theorem which states that it is impossible to prove the consistency of arithmetic within its axioms The final part is dedicated to an introduction into modern axiomatic set theory based on Zermelo's axioms containing also a presentation of Gödel's constructible universe of sets A recurring theme in the whole book consists of standard and non standard models of several theories such as Peano arithmetic Presburger arithmetic and the real numbers In addition the corrected revised and extended second edition now provides detailed solutions to all exercises The book addresses undergraduate mathematics students and is suitable for a one or two semester introductory course into logic and set theory

A Systemic Perspective on Cognition and Mathematics Jeffrey Yi-Lin Forrest, 2013-02-28 This book is devoted to the study of human thought its systemic structure and the historical development of mathematics both as a product of thought and as a fascinating case analysis After demonstrating that systems research constitutes the second dimension of modern science the monograph discusses the yoyo model a recent ground breaking development *Mathematical Logic in Vienna* Jan von Plato, 2024-12-31 This book is a record of a seminar on mathematical logic Kurt Gödel and Hans Hahn held in Vienna in 1931

32 The seminar proceedings given in English translation are a unique witness of the state of research in logic and foundations of mathematics right after G del had published his celebrated incompleteness theorems The seminars explain G del s results in logic in detail in contrast to his publications of the time that often were quite laconic and extremely short This book also contains G del s trial lecture on intuitionistic logic held in Vienna in 1933 The manuscript recently found among the G del papers kept in Princeton is preserved in G del s forgotten German shorthand and published here in an English translation The book also adds an important aspect to the intellectual history of Vienna as both G del and Hahn were members of the Vienna Circle group of philosophers and scientists *Logical Number Theory I* Craig Smorynski,2012-12-06 Number theory as studied by the logician is the subject matter of the book This first volume can stand on its own as a somewhat unorthodox introduction to mathematical logic for undergraduates dealing with the usual introductory material recursion theory first order logic completeness incompleteness and undecidability In addition its second chapter contains the most complete logical discussion of Diophantine Decision Problems available anywhere taking the reader right up to the frontiers of research yet remaining accessible to the undergraduate The first and third chapters also offer greater depth and breadth in logico arithmetical matters than can be found in existing logic texts Each chapter contains numerous exercises historical and other comments aimed at developing the student s perspective on the subject and a partially annotated bibliography A Brief History of Numbers Leo Corry,2015 This is the story behind the idea of number from the Pythagoreans up until the turn of the 20th century through Greek Islamic European mathematics Logic: Reference Book for Computer Scientists Lech T. Polkowski,2023-10-03 The book gives all interested in computer science a deep review of relevant aspects of logic In its scope are classical and non classical logics The content will be valid as well for those interested in linguistic philosophy and many other areas of research both in humane and technical branches of science as logic permeates all genuine realms of science The book contains a substantial part of classical results in logic like those by G del Tarski Church and Rosser as well as later developments like many valued logics logics for knowledge engineering first order logics plus inductive definitions The exposition is rigorous yet without unnecessary abstractionism so it should be accessible to readers from many disciplines of science Each chapter contains a problem section and problems are borrowed from research publications which allows for passing additional information and it allows readers to test their skills Extensive bibliography of 270 positions directs readers to research works of importance **Encyclopedia of Philosophy and the Social Sciences** Byron Kaldis,2013-04-02 The entries in this encyclopedia give readers an opportunity to explore interconnections clarify commonalities as well as differences or comparative contrasts discover new fields or ideas of intellectual interest explore adjacent conceptual zones that may be found to further expand their own disciplinary domains and also understand better their own academic areas of expertise and the historical provenance of each p xxxi Numerical Cognition and the Epistemology of Arithmetic Markus Pantsar,2024-03-28 Arithmetic is one of the foundations of our

educational systems but what exactly is it Numbers are everywhere in our modern societies but what is our knowledge of numbers really about This book provides a philosophical account of arithmetical knowledge that is based on the state of the art empirical studies of numerical cognition It explains how humans have developed arithmetic from humble origins to its modern status as an almost universally possessed knowledge and skill Central to the account is the realisation that while arithmetic is a human creation the development of arithmetic is constrained by our evolutionarily developed cognitive architecture Arithmetic is a sophisticated cultural development but it is ultimately based on abilities with numerosities that we already possess as infants and share with many non human animals Therefore arithmetic is not purely conventional an arbitrary game akin to chess Instead arithmetic is deeply connected to our basic cognitive capacities

The Movement of Thought: Wittgenstein on Time, Change and History James Matthew Fielding, 2023-07-12 This book covers the topic of history and the role that it played in the Austro British philosopher Ludwig Wittgenstein s thought The topic is explored from multiple angles both chronologically and thematically Reviewing Wittgenstein s two magnum opera the Tractatus Logico Philosophicus 1921 and Philosophical Investigations 1952 this work is an investigation into an under acknowledged element in Wittgenstein s thought one which in many cases acted as an impetus for that life long process of novel philosophical reflection History This volume traces the evolution of Wittgenstein s thoughts on time and temporality from the Tractatus through the Investigations into some key post Investigations remarks and also examines the motivations behind Wittgenstein s post Tractarian return to philosophy and in particular the unique methodology he developed in order to serve his renewed purpose The final chapter seeks to answer the question What was Wittgenstein trying to achieve with Philosophical Investigations This book is of interest to philosophers

The Infinite A. W. Moore, 1990 This historical study of the infinite covers all its aspects from the mathematical to the mystical Anyone who has ever pondered the limitlessness of space and time or the endlessness of numbers or the perfection of God will recognize the special fascination of the subject Beginning with an entertaining account of the main paradoxes of the infinite including those of Zeno A W Moore traces the history of the topic from Aristotle to Kant Hegel Cantor and Wittgenstein

Defending Materialism Katerina Kolozova, William Paul Cockshott, Greg Michaelson, 2024-11-14 Nobody doubted that atoms were real once atomic energy was developed but in the early 20th century and before their existence was widely doubted Defending Materialism follows the political and theoretical background of this intense philosophical controversy defending atomistic and mechanical materialism against idealist paradigms These accounts range from the explicit idealism criticised by Lenin and Einstein to the implicit Hegelian idealism that influenced Soviet dialectical materialism Following several key threads the authors trace how the idea of atoms has changed over the centuries how ideology has influenced both sides of the idealism materialism divide and how the nature of time in physics biology and human society can give a fresh view of historical materialism Starting from the origins of materialism in ancient Greek thought and moving through its revival in Isaac Newton and Charles Darwin gives a full picture

of the links between the Marxist tradition and the coarse materiality to which the worlds of science and philosophy have found themselves both subscribed and averse

Logical Foundations of Mathematics and Computational Complexity Pavel Pudlák, 2013-04-22 The two main themes of this book logic and complexity are both essential for understanding the main problems about the foundations of mathematics *Logical Foundations of Mathematics and Computational Complexity* covers a broad spectrum of results in logic and set theory that are relevant to the foundations as well as the results in computational complexity and the interdisciplinary area of proof complexity The author presents his ideas on how these areas are connected what are the most fundamental problems and how they should be approached In particular he argues that complexity is as important for foundations as are the more traditional concepts of computability and provability Emphasis is on explaining the essence of concepts and the ideas of proofs rather than presenting precise formal statements and full proofs Each section starts with concepts and results easily explained and gradually proceeds to more difficult ones The notes after each section present some formal definitions theorems and proofs *Logical Foundations of Mathematics and Computational Complexity* is aimed at graduate students of all fields of mathematics who are interested in logic complexity and foundations It will also be of interest for both physicists and philosophers who are curious to learn the basics of logic and complexity theory

Critical Philosophy of Mathematics Ole Skovsmose, 2024-09-25 This book provides a philosophy of mathematics that resonates with critical mathematics education It draws attention to the social complexities that characterise the period of Modernity including the extreme exploitation of manual workers and their families brutal forms of colonisations trading of slaves and the formation of racist ideologies It portrays Modernity as a period of contradictions and highlights that mathematics is a part of these contradictions The text interprets mathematics as being indefinite seeing that mathematics is a part of the ongoing human constructions It outlines a performative interpretation of mathematics portraying mathematics as intrinsically connected to actions Any kind of action including mathematics based actions calls for ethical considerations and this leads to any mathematical practice either in research application or education to face ethical challenges It illustrates with examples how a critical philosophy of mathematics can come to be an integral part of classroom practices

Induction and Deduction in the Sciences Friedrich Stadler, 2004-04-30 The articles in this volume deal with the main inferential methods that can be applied to different kinds of experimental evidence These contributions accompanied with critical comments by renowned scholars in the field of philosophy of science aim at removing the traditional opposition between inductivists and deductivists They explore the different methods of explanation and justification in the sciences in different contexts and with different objectives The volume contains contributions on methods of the sciences especially on induction deduction abduction laws probability and explanation ranging from logic mathematics natural to the social sciences They present a highly topical pluralist re evaluation of methodological and foundational procedures and reasoning e g focusing in Bayesianism and Artificial Intelligence They document the second international conference in Vienna on Induction and

Deduction in the Sciences as part of the Scientific Network on Historical and Contemporary Perspectives of Philosophy of Science in Europe funded by the European Science Foundation ESF **Kurt Gödel** Solomon Feferman, Charles Parsons, Stephen G. Simpson, 2010-04-19 Kurt Gödel 1906-1978 did groundbreaking work that transformed logic and other important aspects of our understanding of mathematics especially his proof of the incompleteness of formalized arithmetic This book on different aspects of his work and on subjects in which his ideas have contemporary resonance includes papers from a May 2006 symposium celebrating Gödel's centennial as well as papers from a 2004 symposium Proof theory set theory philosophy of mathematics and the editing of Gödel's writings are among the topics covered Several chapters discuss his intellectual development and his relation to predecessors and contemporaries such as Hilbert Carnap and Herbrand Others consider his views on justification in set theory in light of more recent work and contemporary echoes of his incompleteness theorems and the concept of constructible sets **From Calculus to Computers** Amy Shell-Gellasch, Dick Jardine, 2005 Classroom resource material allowing the integration of mathematics history into undergraduate mathematics teaching

Reintroducing Philosophy: Thinking as the Gathering of Civilization Anthony F. Shaker, 2021-01-05 That we are now entering a post Western world is no longer merely a thesis in international studies But what does the dissolution of Western hegemony signify for humanity's rich learning traditions and the civilizing quest for wisdom How can this human inheritance assist us today Reintroducing Philosophy seeks a more realistic framework for discourse on these questions than offered by the Western centric worldview which continues to be taught in schools almost by rote It analyzes themes from several world traditions in logic knowledge and metaphysics connected with the quest for completeness of thinking and practice Its examination of the relation of knowing and being is based on sources as varied as Leibniz and Frege Quine and ancient Greek and classical Indian and Chinese thought Shaker brings into the discussion the paradigm unnamed that had been presented as that of man's being in the world encapsulating philosophy's longstanding view of thinking as the gathering of civilization Reintroducing Philosophy is based on a concentrated reading of all these sources simply because human civilization had already been global and advanced before the present age **Set Theory for Computing** Domenico Cantone, Eugenio Omodeo, Alberto Policriti, 2001-06-26 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods Mastering today's variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems data types and solution methods algorithmic program verification and automated deduction The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated

reasoning A History of Analysis Hans Niels Jahnke, 2003 Analysis as an independent subject was created as part of the scientific revolution in the seventeenth century Kepler Galileo Descartes Fermat Huygens Newton and Leibniz to name but a few contributed to its genesis Since the end of the seventeenth century the historical progress of mathematical analysis has displayed unique vitality and momentum No other mathematical field has so profoundly influenced the development of modern scientific thinking Describing this multidimensional historical development requires an in depth discussion which includes a reconstruction of general trends and an examination of the specific problems This volume is designed as a collective work of authors who are proven experts in the history of mathematics It clarifies the conceptual change that analysis underwent during its development while elucidating the influence of specific applications and describing the relevance of biographical and philosophical backgrounds The first ten chapters of the book outline chronological development and the last three chapters survey the history of differential equations the calculus of variations and functional analysis Special features are a separate chapter on the development of the theory of complex functions in the nineteenth century and two chapters on the influence of physics on analysis One is about the origins of analytical mechanics and one treats the development of boundary value problems of mathematical physics especially potential theory in the nineteenth century The book presents an accurate and very readable account of the history of analysis Each chapter provides a comprehensive bibliography Mathematical examples have been carefully chosen so that readers with a modest background in mathematics can follow them It is suitable for mathematical historians and a general mathematical audience

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **From Frege To Godel A Source In Mathematical Logic 1879 1931 Source S In History Of Sciences**

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