

HANDBOOK  
*of*  
THE HISTORY  
OF LOGIC

VOLUME 3  
THE RISE OF MODERN LOGIC:  
FROM LEIBNIZ TO FREGE

*Edited by*  
Dov M. Gabbay  
John Woods

# Rise Of Modern Logic From Leibniz To Frege

**Heinz-Dieter Ebbinghaus**



## Rise Of Modern Logic From Leibniz To Frege:

**The Rise of Modern Logic: from Leibniz to Frege** Dov M. Gabbay, John Woods, 2004-03-08 With the publication of the present volume the Handbook of the History of Logic turns its attention to the rise of modern logic The period covered is 1685 1900 with this volume carving out the territory from Leibniz to Frege What is striking about this period is the earliness and persistence of what could be called the mathematical turn in logic Virtually every working logician is aware that after a centuries long run the logic that originated in antiquity came to be displaced by a new approach with a dominantly mathematical character It is however a substantial error to suppose that the mathematization of logic was in all essentials Frege s accomplishment or if not his alone a development ensuing from the second half of the nineteenth century The mathematical turn in logic although given considerable torque by events of the nineteenth century can with assurance be dated from the final quarter of the seventeenth century in the impressively prescient work of Leibniz It is true that in the three hundred year run up to the *Begriffsschrift* one does not see a smoothly continuous evolution of the mathematical turn but the idea that logic is mathematics albeit perhaps only the most general part of mathematics is one that attracted some degree of support throughout the entire period in question Still as Alfred North Whitehead once noted the relationship between mathematics and symbolic logic has been an uneasy one as is the present day association of mathematics with computing Some of this unease has a philosophical texture For example those who equate mathematics and logic sometimes disagree about the directionality of the purported identity Frege and Russell made themselves famous by insisting though for different reasons that logic was the senior partner Indeed logicism is the view that mathematics can be re expressed without relevant loss in a suitably framed symbolic logic But for a number of thinkers who took an algebraic approach to logic the dependency relation was reversed with mathematics in some form emerging as the senior partner This was the precursor of the modern view that in its four main precincts set theory proof theory model theory and recursion theory logic is indeed a branch of pure mathematics It would be a mistake to leave the impression that the mathematization of logic or the logicization of mathematics was the sole concern of the history of logic between 1665 and 1900 There are in this long interval aspects of the modern unfolding of logic that bear no stamp of the imperial designs of mathematicians as the chapters on Kant and Hegel make clear Of the two Hegel s influence on logic is arguably the greater serving as a spur to the unfolding of an idealist tradition in logic a development that will be covered in a further volume *British Logic in the Nineteenth Century*     *Sets and Extensions in the Twentieth Century* ,2012-03-02 Set theory is an autonomous and sophisticated field of mathematics that is extremely successful at analyzing mathematical propositions and gauging their consistency strength It is as a field of mathematics that both proceeds with its own internal questions and is capable of contextualizing over a broad range which makes set theory an intriguing and highly distinctive subject This handbook covers the rich history of scientific turning points in set theory providing fresh insights and points of view Written by leading

researchers in the field both this volume and the Handbook as a whole are definitive reference tools for senior undergraduates graduate students and researchers in mathematics the history of philosophy and any discipline such as computer science cognitive psychology and artificial intelligence for whom the historical background of his or her work is a salient consideration

Aristotle's Syllogism and the Creation of Modern Logic Lukas M. Verburgt, Matteo Cosci, 2023-01-26 Offering a bold new vision on the history of modern logic Lukas M Verburgt and Matteo Cosci focus on the lasting impact of Aristotle's syllogism between the 1820s and 1930s For over two millennia deductive logic was the syllogism and syllogism was the yardstick of sound human reasoning During the 19th century this hegemony fell apart and logicians including Boole Frege and Peirce took deductive logic far beyond its Aristotelian borders However contrary to common wisdom reflections on syllogism were also instrumental to the creation of new logical developments such as first order logic and early set theory This volume presents the period under discussion as one of both tradition and innovation both continuity and discontinuity Modern logic broke away from the syllogistic tradition but without Aristotle's syllogism modern logic would not have been born A vital follow up to *The Aftermath of Syllogism* this book traces the longue dure history of syllogism from Richard Whately's revival of formal logic in the 1820s through the work of David Hilbert and the Göttingen school up to the 1930s Bringing together a group of major international experts it sheds crucial new light on the emergence of modern logic and the roots of analytic philosophy in the 19th and early 20th centuries

**Aristotle's Organon in Old and New Logic** Colin Guthrie King, Venanzio Raspa, 2025-01-23 Aristotle's Organon in Old and New Logic 1800 1950 explores the reception and interpretation of Aristotle's logic over the last two centuries The volume covers seminal works during this period by logicians historians of logic and historians of philosophy including John Lloyd Akrill Francesco Barone Günther Patzig Enrico Berti and Mario Mignucci Contributors consider the reception of the Organon in old logic and chart the appearance of formal approaches to logic beginning with Boole This in depth study of Aristotelianism also covers logic in Kant and Hegel alongside the problems and projects of interpreting Aristotle in the new logic after Boole and Frege The background of modern debates concerning induction and abduction provides further insight into Aristotelian logic during the period By filling gaps in our understanding of Aristotelian logic this book provides a fundamental missing link in 21st century studies of the history of Aristotelianism It brings together scholars of both ancient and modern logic to understand the interpretation of ancient logic before and after the development of the modern algebraic approach to logic

The Oxford Handbook of German Philosophy in the Nineteenth Century Michael N. Forster, Kristin Gjesdal, 2015-02-05 The Oxford Handbook of German Philosophy in the Nineteenth Century is the first collective critical study of this important period in intellectual history The volume is divided into four parts The first part explores individual philosophers including Fichte Hegel Schopenhauer Marx and Nietzsche amongst other great thinkers of the period The second addresses key philosophical movements Idealism Romanticism Neo Kantianism and Existentialism The essays in the third part engage with different areas of philosophy that received particular

attention at this time including philosophy of nature philosophy of mind philosophy of language philosophy of history and hermeneutics Finally the contributors turn to discuss central philosophical topics from skepticism to materialism from dialectics to ideas of historical and cultural Otherness and from the reception of antiquity to atheism Written by a team of leading experts this Handbook will be an essential resource for anyone working in the area and will lead the direction of future research

**Leibniz and the Structure of Sciences** Vincenzo De Risi, 2020-01-01 The book offers a collection of essays on various aspects of Leibniz's scientific thought written by historians of science and world leading experts on Leibniz The essays deal with a vast array of topics on the exact sciences Leibniz's logic mereology the notion of infinity and cardinality the foundations of geometry the theory of curves and differential geometry and finally dynamics and general epistemology Several chapters attempt a reading of Leibniz's scientific works through modern mathematical tools and compare Leibniz's results in these fields with 19th and 20th Century conceptions of them All of them have special care in framing Leibniz's work in historical context and sometimes offer wider historical perspectives that go much beyond Leibniz's researches A special emphasis is given to effective mathematical practice rather than purely epistemological thought The book is addressed to all scholars of the exact sciences who have an interest in historical research and Leibniz in particular and may be useful to historians of mathematics physics and epistemology mathematicians with historical interests and philosophers of science at large

**Syllogistic Logic and Mathematical Proof** Paolo Mancosu, Massimo Mugnai, 2023 This volume provides a unified account of the history of attempts to convert mathematical proof to a syllogistic form of reasoning from Aristotle to major advances in logic in the nineteenth century The analysis of the debate provides insights into the relationship between philosophy and mathematics

**The Logical Tracts** Ahti-Veikko Pietarinen, 2021-05-10 In three comprehensive volumes **Logic of the Future** presents a full panorama of Charles S Peirce's important late writings Among the most influential American thinkers Peirce took his existential graphs to be his greatest contribution to human thought The manuscripts from 1895-1913 most of which are published here for the first time testify the richness and open endedness of his theory of logic and its applications They also invite us to reconsider our ordinary conceptions of reasoning as well as the conventional stories told about the evolution of modern logic This second volume collects Peirce's writings on existential graphs related to his Lowell Lectures of 1903 the annus mirabilis of his that became decisive in the development of the mature theory of the graphical method of logic

**Logic and Metalogic**, **The Metaphysical Basis of Ethics** Consuelo Preti, 2021-12-09 This book remedies the absence in the history of analytic philosophy of a detailed examination of G E Moore's philosophical views as they developed between 1894 and 1902 This period saw the inauguration of analytic philosophy through the work of Moore and Bertrand Russell Moore's early views are examined in detail through unpublished archival material including surviving letters diaries notes of lectures attended papers for Cambridge societies and drafts of early work in order to revise the established view that the origin of analytic philosophy at Cambridge was an abrupt split from F H Bradley's Absolute

Idealism Traditional accounts of this period have highlighted the anti psychologism of Frege s logic but have not explored the impact of this movement more broadly Anti psychologism was a key feature of the work of Moore s teachers on the nature of the mind and its objects in their interpretation of Kant and in ethics Moore s teachers G F Stout and James Ward were significant contributors to the late 19th century debates in mental science and the developing new science of psychology Henry Sidgwick s criticisms of Kant and Bradley and his leading work in ethics were key influences on Moore Moore s Trinity Fellowship Dissertations are essential historical evidence of the development of Moore s new theory of judgment a theory whose defining role in the origins of analytic philosophy cannot be overstated Moore s study of Kant in his dissertations ultimately formed the groundwork for his *Principia Ethica* 1903 which evolved from ideas that manifested in Moore s earliest Apostles papers developed through his dissertations and were refined through his *Elements of Ethics* lectures 1898 99 This monumental work of early twentieth century ethics is thus shown to be the culmination of Moore s early philosophical development

**Hegel's Philosophy of Right** Dean Moyar, Kate Padgett Walsh, Sebastian Rand, 2022-12-28 Hegel s *Philosophy of Right* was his last systematic work and the most complete statement of his mature views on ethical and political philosophy The text explores the relationships between three distinct conceptions of human freedom persons as possessing contract rights subjects as reflective moral agents and individuals as members of an ethical community It strongly influenced the early Marx and debates over liberalism and communitarianism that arose in the latter half of the twentieth century In celebration of the 200th anniversary of the publication of the *Philosophy of Right* the 18 essays in this volume by contemporary scholars examine the nature and impact of Hegel s text They examine a diverse array of topics ranging from Hegel s account of rights religious freedom gender the state history and naturalism to some hitherto relatively overlooked topics such as Hegel and Luther art and nationality and Hegel and the market Each contribution also pays homage to the work of Terry Pinkard who as a foremost interpreter and scholar of Hegel s thought revived and reinvented the contemporary field of Hegel studies Hegel s *Philosophy of Right* *Critical Perspectives on Freedom and History* will be valuable reading for scholars of Hegel nineteenth century German philosophy moral and political philosophy and the history of political thought

**Revisiting Discovery and Justification** Jutta Schickore, Friedrich Steinle, 2006-01-27 The distinction between the contexts of discovery and justification has left a turbulent wake in the philosophy of science This book recognizes the need to re open the debate about the nature development and significance of the context distinction about its merits and flaws The discussion clears the ground for the productive and fruitful integration of these new developments into philosophy of science

*The Oxford Handbook of The History of Analytic Philosophy* Michael Beaney, 2013-06-20 The main stream of academic philosophy in Anglophone countries and increasingly worldwide is identified by the name analytic The study of its history from the 19th century to the late 20th has boomed in recent years These specially commissioned essays by forty leading scholars constitute the most comprehensive book on the subject

*Bloomsbury Semiotics Volume 2: Semiotics in the*

*Natural and Technical Sciences* Jamin Pelkey, Stéphanie Walsh Matthews, 2023-01-12 Bloomsbury Semiotics offers a state of the art overview of the entire field of semiotics by revealing its influence on a wide range of disciplinary perspectives With four volumes spanning theory method and practice across the disciplines this definitive reference work emphasizes and strengthens common bonds shared across intellectual cultures and facilitates the discovery and recovery of meaning across fields It comprises Volume 1 History and Semiosis Volume 2 Semiotics in the Natural and Technical Sciences Volume 3 Semiotics in the Arts and Social Sciences Volume 4 Semiotic Movements Written by leading international experts the chapters provide comprehensive overviews of the history and status of semiotic inquiry across a diverse range of traditions and disciplines Together they highlight key contemporary developments and debates along with ongoing research priorities Providing the most comprehensive and united overview of the field Bloomsbury Semiotics enables anyone from students to seasoned practitioners to better understand and benefit from semiotic insight and how it relates to their own area of study or research Volume 2 Semiotics in the Natural and Technical Sciences presents the state of the art in semiotic approaches to disciplines ranging from mathematics and biology to neuroscience and medicine from evolutionary linguistics and animal behaviour studies to computing finance law architecture and design Each chapter casts a vision for future research priorities unanswered questions and fresh openings for semiotic participation in these and related fields Phenomenology, Logic, and the Philosophy of Mathematics Richard L. Tieszen, 2005-06-06 In this 2005 book logic mathematical knowledge and objects are explored alongside reason and intuition in the exact sciences Other Logics Admir Skodo, 2014-03-13 Other Logics Alternatives to Formal Logic in the History of Thought and Contemporary Philosophy challenges the widespread idea of formal logic as inherently monolithic universal and ahistorical Written by both leading and up and coming scholars and edited by Admir Skodo Other Logics offers a wide variety of historical and philosophical alternatives to this idea all arguing that logic is a historical concrete and multi dimensional phenomenon To name a few examples Frank Ankersmit lays down a representationalist logic Alessandra Tanesini forcefully argues for the possibility of logical aliens Christopher Watkin analyzes how leading contemporary French philosophers view the idea of logic and Aaron Wendland unearths Heidegger's critique of formal logic In Other Logics readers will find provocative interventions in a highly contested field in contemporary philosophy Contributors include Frank Ankersmit Christopher Watkin Giuseppina D Oro Alessandra Tanesini Admir Skodo Aaron Wendland Ervik Cejvan Anders Kraal Christopher Fear Karim Dharamsi Johan Mod e and Thord Svensson Ernst Zermelo Heinz-Dieter Ebbinghaus, 2007-06-02 Ernst Zermelo 1871 1953 is best known for the statement of the axiom of choice and his axiomatization of set theory However he also worked in applied mathematics and mathematical physics His dissertation for example promoted the calculus of variations and he created the pivotal method in the theory of rating systems This biography attempts to shed light on all facets of Zermelo's life and achievements Personal and scientific aspects are kept separate as far as coherence allows in order to enable the reader to follow the one or the other of these threads The

description of his personality owes much to conversations with his late wife Gertrud The presentation of his work explores motivations aims acceptance and influence Selected proofs and information gleaned from unpublished notes and letters add to the analysis All facts presented are documented by appropriate sources The biography contains more than 40 photos and facsimiles most of them provided by Gertrud Zermelo and published here for the first time     *The Historical Turn in Analytic Philosophy* E. Reck,2013-03-27 During the last 25 years a large number of publications on the history of analytic philosophy have appeared significantly more than in the preceding period As most of these works are by analytically trained authors it is tempting to speak of a historical turn in analytic philosophy The present volume constitutes both a contribution to this body of work and a reflection on what is or might be achieved in it The twelve new essays by an international group of contributors range from case studies on individual philosophers Russell Carnap Quine and Ryle through discussions of broader themes in the history of analytic philosophy in logic and philosophy of language philosophy of mathematics epistemology philosophy of mind and psychology to related methodological reflections on the relationship between doing analytic philosophy and studying the history of philosophy on various forms of philosophical history and on their respective benefits     *Signs of Logic* Ahti-Veikko Pietarinen,2006-08-25 Charles Sanders Peirce 1839 1914 the principal subject of this book was one of the most profound and prolific thinkers and scientists to have come out of the United States His pragmatic logic and scientific methodology largely represent the application of interactive and intercommunicative triadic processes best viewed as strategic and dialogic conceptualisations of logical aspects of thought reasoning and action These viewpoints also involve pragmatic issues in communicating linguistic signs and are unified in his diagrammatic logic of existential graphs The various game theoretic approaches to the semantics and pragmatics of signs and language to the theory of communication and to the evolutionary emergence of signs provide a contemporary toolkit the relevance of which Peirce envisioned to a wondrous extent This work sheds considerable new light on these and other aspects of Peirce s philosophy and his pragmatic theory of meaning Many of his most significant writings in this context reflect his later thinking covering roughly the last 15 20 years of his life and they are still unpublished Drawing comprehensively from his unpublished manuscripts the book offers a fresh and rich picture of this remarkable man s original involvement with logical aspects of thought in action     *Mereology* A. J. Cotnoir,Achille C. Varzi,2021-07-22 Is a whole something more than the sum of its parts Are there things composed of the same parts If you divide an object into parts and divide those parts into smaller parts will this process ever come to an end Can something lose parts or gain new ones without ceasing to be the thing it is Does any multitude of things including disparate things such as you this book and the tail of a cat compose a whole of some sort Questions such as these have occupied us for at least as long as philosophy has existed They define the field that has come to be known as mereology the study of all relations of part to whole and of part to part within a whole and have deep and far reaching ramifications in metaphysics as well as in logic the foundations of mathematics the philosophy of language the philosophy of science and



beyond In Mereology A J Cotnoir and Achille C Varzi have compiled decades of advanced research into a comprehensive up to date and formally rigorous picture The early chapters cover the more classical aspects of mereology the rest of the book deals with variants and extensions Whether you are an established professional philosopher an interested student or a newcomer inside you will find all the tools you need to join this ever evolving field of inquiry and theorize about all things mereological

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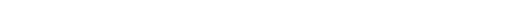
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