



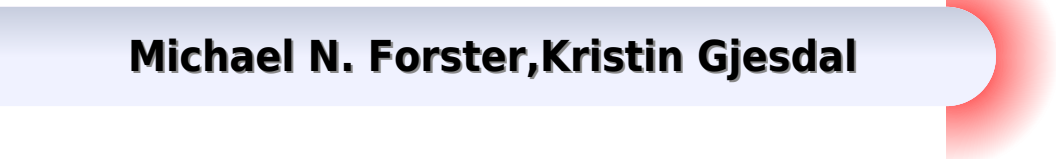
HANDBOOK
of
THE HISTORY
OF LOGIC

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

Michael N. Forster, Kristin Gjesdal



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 long 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

Quantification: Transcending Beyond Frege's Boundaries Aleksy Molczanow, 2012-03-02 In his attempt to give an answer to the question of what constitutes real knowledge Kant steers a middle course between empiricism and rationalism True knowledge refers to a given empirical reality but true knowledge has to be understood as necessary as well and so consequently must be a priori Both demands can only be reconciled if synthetic a priori judgments are possible To ground this possibility Kant develops his transcendental logic In Frege's program of providing a logicistic basis for true knowledge the same problem is at issue his logicist solution places the quantifier into the position of the basic element connected to the truth of a proposition As the basic element of a theory of logic it refers at the same time to something in reality Molczanow argues that Frege's program fails because it does not pay sufficient attention to Kant's transcendental logic Frege interprets synthetic a priori judgments as ultimately analytic and thus falls back onto a Leibnizian rationalism thereby ignoring Kant's middle course Under the title of the transcendental analytic of quantification Molczanow discusses Frege's concept of quantification For Frege the proper analysis of number words and the categories of quantity raises problems which can only be solved according to Molczanow with the help of Kant's transcendental logic Molczanow's book thus deserves its place in the series Critical Studies in German Idealism because it provides a further elaboration of Kant's transcendental logic by bringing it into conversation with contemporary logic The result is a new conception of the nature of quantification which speaks to our time

Logic: A History of its Central Concepts Dov M. Gabbay, Francis Jeffry Pelletier, John Woods, 2012-12-31 The Handbook of the History of Logic is a multi volume research instrument that brings to the development of logic the best in modern techniques of historical and interpretative scholarship It is the first work in English in which the history of logic is presented so extensively The volumes are numerous and large Authors have been given considerable latitude to produce chapters of a length and a level of detail that would lay fair claim on the ambitions of the project to be a definitive research work Authors have been carefully selected with this aim in mind They and the Editors join in the conviction that a knowledge of the history of logic is nothing but beneficial to the subject's present day research programmes One of the attractions of the Handbook's several volumes is the emphasis they give to the enduring relevance of developments in logic throughout the ages including some of the earliest manifestations of the subject Covers in depth the notion of logical consequence Discusses the central concept in logic of modality Includes the use of diagrams in logical reasoning

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 to 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 ,

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