

FREGE AND THE  
PHILOSOPHY OF  
MATHEMATICS

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Michael D. Resnik

# Frege And The Philosophy Of Mathematics

**Gottlob Frege**



## **Frege And The Philosophy Of Mathematics:**

**Frege** Michael Dummett, 1991 No one has figured more prominently in the study of the German philosopher Gottlob Frege than Michael Dummett His magisterial *Frege Philosophy of Language* is a sustained systematic analysis of Frege's thought omitting only the issues in philosophy of mathematics In this work Dummett discusses section by section Frege's masterpiece *The Foundations of Arithmetic* and Frege's treatment of real numbers in the second volume of *Basic Laws of Arithmetic* establishing what parts of the philosopher's views can be salvaged and employed in new theorizing and what must be abandoned either as incorrectly argued or as untenable in the light of technical developments Gottlob Frege 1848-1925 was a logician, mathematician and philosopher whose work had enormous impact on Bertrand Russell and later on the young Ludwig Wittgenstein making Frege one of the central influences on twentieth century Anglo-American philosophy he is considered the founder of analytic philosophy His philosophy of mathematics contains deep insights and remains a useful and necessary point of departure for anyone seriously studying or working in the field

**Frege and the Philosophy of Mathematics** Michael D. Resnik, 1980 *Frege's Philosophy of Mathematics* William Demopoulos, 1995 Widespread interest in Frege's general philosophical writings is relatively speaking a fairly recent phenomenon But it is only very recently that his philosophy of mathematics has begun to attract the attention it now enjoys This interest has been elicited by the discovery of the remarkable mathematical properties of Frege's contextual definition of number and of the unique character of his proposals for a theory of the real numbers This collection of essays addresses three main developments in recent work on Frege's philosophy of mathematics the emerging interest in the intellectual background to his logicism the rediscovery of Frege's theorem and the reevaluation of the mathematical content of *The Basic Laws of Arithmetic* Each essay attempts a sympathetic if not uncritical reconstruction evaluation or extension of a facet of Frege's theory of arithmetic Together they form an accessible and authoritative introduction to aspects of Frege's thought that have until now been largely missed by the philosophical community

*On Sense and Reference* Gottlob Frege, 2021-04-10 In *On Sense and Reference* Gottlob Frege presents a foundational exploration of the philosophy of language distinguishing between the sense (*Sinn*) and reference (*Bedeutung*) of terms This seminal work written in the late 19th century employs a rigorous analytical style synonymous with Frege's logical approach marking a significant departure from earlier philosophical discourse The book addresses the intricacies of meaning identity and the implications of language on thought laying the groundwork for modern semantics and influencing subsequent thinkers in both philosophy and linguistics Gottlob Frege often regarded as the father of modern logic was motivated by challenges posed to the foundations of mathematics and language's role in expressing abstract concepts His earlier work in logic and number theory informed his investigation into how language conveys meaning reflecting his desire to resolve ambiguities that had perplexed philosophers Frege's intellectual environment characterized by the rapid development of logic and analytic philosophy propelled him to articulate these profound ideas *On Sense and Reference* is

essential reading for anyone interested in the intersections of philosophy linguistics and logic Frege's pioneering insights into meaning and reference remain relevant providing a critical lens through which to examine contemporary discussions in philosophy of language This accessible text invites scholars and enthusiasts alike to engage with the complexities of language and thought In this enriched edition we have carefully created added value for your reading experience A succinct Introduction situates the work's timeless appeal and themes The Synopsis outlines the central plot highlighting key developments without spoiling critical twists A detailed Historical Context immerses you in the era's events and influences that shaped the writing An Author Biography reveals milestones in the author's life illuminating the personal insights behind the text A thorough Analysis dissects symbols motifs and character arcs to unearth underlying meanings Reflection questions prompt you to engage personally with the work's messages connecting them to modern life Hand picked Memorable Quotes shine a spotlight on moments of literary brilliance Interactive footnotes clarify unusual references historical allusions and archaic phrases for an effortless more informed read

**Frege** Michael Dummett, 1981 No one has figured more prominently in the study of German philosopher Gottlob Frege than Michael Dummett This highly acclaimed book is a major contribution to the philosophy of language as well as a systematic interpretation of Frege indisputably the father of analytic philosophy Frege Philosophy of Language remains indispensable for an understanding of contemporary philosophy Harvard University Press is pleased to reissue this classic book in paperback

**Frege and Other Philosophers** Michael Dummett, 1991-02-14 The ideas of the German philosopher and mathematician Gottlob Frege lie at the root of the analytic movement in philosophy Michael Dummett is his leading modern critical interpreter and one of today's most eminent philosophers This volume collects together fifteen of Dummett's classic essays on Frege and related subjects

Gottlob Frege: Frege's philosophy of mathematics Michael Beaney, Erich H. Reck, 2005 This collection brings together recent scholarship on Frege including new translations of German material which is made available to Anglophone scholars for the first time

*Frege* Michael Dummett, 1973

The Cambridge Companion to Frege Tom Ricketts, Michael Potter, 2010-09-02 Offers a comprehensive and accessible exploration of the scope and importance of Gottlob Frege's work

**Translations from the Philosophical Writings of Gottlob Frege** Gottlob Frege, Max Black, 1977

*The Reason's Proper Study* Bob Hale, Crispin Wright, 2001 Here Bob Hale and Crispin Wright assemble the key writings that lead to their distinctive neo-Fregean approach to the philosophy of mathematics In addition to fourteen previously published papers the volume features a new paper on the Julius Caesar problem a substantial new introduction mapping out the program and the contributions made to it by the various papers a section explaining which issues most require further attention and bibliographies of references and further useful sources It will be recognized as the most powerful presentation yet of a neo-Fregean program

*Frege's Theorem* Richard G. Heck, 2011-09-29 Richard Heck explores a key idea in the work of the great philosopher logician Gottlob Frege that the axioms of arithmetic can be logically derived from a single principle Heck uses the theorem to

explore historical philosophical and technical issues in philosophy of mathematics and logic relating them to key areas of contemporary philosophy     Gottlob Frege: Basic Laws of Arithmetic Gottlob Frege, 2013-10 This is the first complete English translation of Gottlob Frege's *Grundgesetze der Arithmetik* originally published in two volumes 1893 and 1903 with introduction and annotation The importance of Frege's ideas within contemporary philosophy would be hard to exaggerate He was to all intents and purposes the inventor of mathematical logic and the influence exerted on modern philosophy of language and logic and indeed on general epistemology by the philosophical framework within which his technical contributions were conceived and developed has been so deep that he has a strong case to be regarded as the inventor of much of the agenda of modern analytical philosophy itself Two of Frege's three principal books the *Begriffsschrift* 1879 and *Grundlagen der Arithmetik* 1884 have been available in English translation for many years as have all the most important of his other article length writings *Grundgesetze* was to have been the summit of Frege's life's work a rigorous demonstration of how the fundamental laws of the classical pure mathematics of the natural and real numbers could be derived from principles which in his view were purely logical A letter received from Bertrand Russell shortly before the publication of the second volume made Frege realise that Axiom V of his system governing identity for value ranges led to contradiction But much of the main thrust of Frege's project can be salvaged The continuing importance of the *Grundgesetze* lies not only in its bearing on issues in the foundations of mathematics but in its model of philosophical inquiry Frege's ability to locate the essential questions his integration of logical and philosophical analysis and his rigorous approach to criticism and argument in general are vividly in evidence in this his most ambitious work     **The Rise of Analytic Philosophy, 1879-1930**

Michael Potter, 2019-10-08 In this book Michael Potter offers a fresh and compelling portrait of the birth of modern analytic philosophy viewed through the lens of a detailed study of the work of the four philosophers who contributed most to shaping it Gottlob Frege Bertrand Russell Ludwig Wittgenstein and Frank Ramsey It covers the remarkable period of discovery that began with the publication of Frege's *Begriffsschrift* in 1879 and ended with Ramsey's death in 1930 Potter one of the most influential scholars of this period in philosophy presents a deep but accessible account of the break with absolute idealism and neo Kantianism and the emergence of approaches that exploited the newly discovered methods in logic Like his subjects Potter focusses principally on philosophical logic philosophy of mathematics and metaphysics but he also discusses epistemology meta ethics and the philosophy of language The book is an essential starting point for any student attempting to understand the work of Frege Russell Wittgenstein and Ramsey as well as their interactions and their larger intellectual milieu It will also be of interest to anyone who wants to cast light on current philosophical problems through a better understanding of their origins     **Logic and Foundations of Mathematics in Frege's Philosophy** Hans D. Sluga, 1993

Fixing Frege John P. Burgess, 2005-07-25 Gottlob Frege's attempt to found mathematics on a grand logical system came to grief when Bertrand Russell discovered a contradiction in it This book surveys consistent restrictions in both the old and

new versions of Frege's system determining just how much of mathematics can be reconstructed in each      *Essays on Frege's Basic Laws of Arithmetic* Philip A. Ebert, Marcus Rossberg, 2019-09-11 The volume is the first collection of essays that focuses on Gottlob Frege's Basic Laws of Arithmetic 1893 1903 highlighting both the technical and the philosophical richness of Frege's magnum opus It brings together twenty two renowned Frege scholars whose contributions discuss a wide range of topics arising from both volumes of Basic Laws of Arithmetic The original chapters in this volume make vivid the importance and originality of Frege's masterpiece not just for Frege scholars but for the study of the history of logic mathematics and philosophy      *Collected Papers on Mathematics, Logic, and Philosophy* Gottlob Frege, 1991-01-08      *Frege* Harold W. Noonan, 2013-07-08 This new book offers a comprehensive and accessible introduction to Frege's remarkable philosophical work examining the main areas of his writings and demonstrating the connections between them Frege's main contribution to philosophy spans philosophical logic the theory of meaning mathematical logic and the philosophy of mathematics The book clearly explains and assesses Frege's work in these areas systematically examining his major concepts and revealing the links between them The emphasis is on Frege's highly influential work in philosophical logic and the theory of meaning including the features of his logic his conceptions of object concept and function and his seminal distinction between sense and reference Frege will be invaluable for students of the philosophy of language philosophical logic and analytic philosophy

**A Critical Introduction to the Philosophy of Gottlob Frege** Professor Guillermo E Rosado Haddock, 2012-10-01  
Gottlob Frege is one of the greatest logicians ever and also a philosopher of great significance In this book Rosado Haddock offers a critical presentation of the main topics of Frege's philosophy including among others his philosophy of arithmetic his sense referent distinction his distinction between function and object and his criticisms of formalism and psychologism More than just an introduction to Frege's philosophy this book is also a highly critical and mature assessment of it as a whole in which the limitations confusions and other weaknesses of Frege's thought are closely examined The author is also a Husserlian scholar and this book contains valuable discussions of Husserl's neglected views and comparisons between the two great philosophers

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