

**THE BASIC LAWS OF  
ARITHMETIC**  
EXPOSITION OF THE SYSTEM

**GOTTLOB FREGE  
TRANSLATED AND EDITED BY  
MONTGOMERY FURTH**

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# Gottlob Frege Basic Laws Of Arithmetic

**Stephen Biggs, Heimir Geirsson**



## **Gottlob Frege Basic Laws Of Arithmetic:**

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.

**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.

**The Basic Laws of Arithmetic** Gottlob Frege, 2023-11-15 *Basic Laws of Arithmetic: Exposition of the System* by Gottlob Frege is a seminal work that aims to establish arithmetic and mathematical analysis as logical systems derived from pure logic. Published in 1893, it represents a cornerstone in the history of mathematical and philosophical thought. Frege's primary objective was to substantiate logicism, the view that truths of arithmetic are not irreducibly mathematical, synthetic a priori or empirical, but are instead expressions of logical truths. The book lays out three core tasks: defining logical propositions and rules of inference and deriving arithmetic's fundamental truths from these logical principles. While Frege's meticulous approach to these tasks helped establish mathematical logic as a discipline, his work ultimately failed to achieve its purpose as the set theory underpinning his system proved inconsistent, a flaw brought to his attention by Bertrand Russell. Despite its failure, as Frege envisioned it,

the work remains profoundly influential Frege's exploration of logical truth and inference pioneered formal logic including propositional calculus quantification theory and set theory His philosophy of language embedded within the system's semantics offers a deep and nuanced understanding of meaning that continues to resonate within analytical philosophy Moreover Frege's precise and rigorous standards of reasoning surpass many subsequent works including the more widely adopted Principia Mathematica Although his logicism is untenable in its original form Frege's ideas remain a vital resource for understanding the intersection of logic mathematics and language making his Grundgesetze a crucial study for philosophers logicians and historians This translation of key sections emphasizes its ongoing relevance to modern philosophical inquiries into meaning and language This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1964     Essays on Frege's Basic Laws of Arithmetic Philip A. Ebert, Marcus Rossberg, 2019 This is the first collective study of a foundational text in modern philosophy and logic Gottlob Frege's Basic Laws of Arithmetic Twenty two Frege scholars discuss a wide range of philosophical and logical topics arising from Basic Laws of Arithmetic and demonstrate the technical and philosophical richness of this great work     *Gottlob Frege: Basic Laws of Arithmetic* , 2013-10 This is the first complete English translation of Gottlob Frege's Grundgesetze der Arithmetik 1893 and 1903 with introduction and annotation As the culmination of his groundbreaking work in the philosophy of logic and mathematics Frege here tried to show how the fundamental laws of arithmetic could be derived from purely logical principles     *Basic Laws of Arithmetic, Derived Using Concept-script* Gottlob Frege, 2013 The first complete English translation of a groundbreaking work An ambitious account of the relation of mathematics to logic Includes a foreword by Crispin Wright translators Introduction and an appendix on Frege's logic by Roy T Cook The German philosopher and mathematician Gottlob Frege 1848-1925 was the father of analytic philosophy and to all intents and purposes the inventor of modern logic Basic Laws of Arithmetic originally published in German in two volumes 1893 1903 is Frege's magnum opus It was to be the pinnacle of Frege's life's work It represents the final stage of his logicist project the idea that arithmetic and analysis are reducible to logic and contains his mature philosophy of mathematics and logic The aim of Basic Laws of Arithmetic is to demonstrate the logical nature of mathematical theorems by providing gapless proofs in Frege's formal system using only basic laws of logic logical inference and explicit definitions The work contains a philosophical foreword an introduction to Frege's logic a derivation of arithmetic from this logic a critique of contemporary approaches to the real numbers and the beginnings of a logicist treatment of real analysis As is well known a letter received from Bertrand Russell shortly before the publication of the second volume made Frege realise that his basic law V governing the identity of value ranges leads into inconsistency Frege discusses a revision to basic law V written in response to Russell's

letter in an afterword to volume II The continuing importance of Basic Laws of Arithmetic lies not only in its bearing on issues in the foundations of mathematics and logic 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 Philip Ebert and Marcus Rossberg present the first full English translation of both volumes of Frege's major work preserving the original formalism and pagination The edition contains a foreword by Crispin Wright and an extensive appendix providing an introduction to Frege's formal system by Roy T Cook

**Readership** Scholars and advanced students in philosophy of logic philosophy of mathematics and early analytic philosophy

**Essays on Frege's** Philip A. Ebert, Marcus Rossberg, 2019 This volume is the first collective study of a foundational text in modern philosophy and logic Gottlob Frege's Basic Laws of Arithmetic which appeared in two volumes in 1893 and 1903 Twenty-two Frege scholars discuss a wide range of philosophical and logical topics arising from Basic Laws of Arithmetic and demonstrate the technical and philosophical richness of the work Their original contributions make vivid the importance of this magnum opus not just for Frege scholars but for the study of the history of logic mathematics and philosophy

**Weakening Philosophy** Santiago Zabala, 2006-12-12 Moving away from Jacques Derrida's deconstructionism and Paul Ricoeur's hermeneutics and building on his experiences as a politician Vattimo asks if it is still possible to speak of moral imperatives individual rights and political freedom Acknowledging the force of Nietzsche's God is dead Vattimo argues for a philosophy of *pensiero debole* or weak thinking that shows how moral values can exist without being guaranteed by an external authority His secularising interpretation stresses anti-metaphysical elements and puts philosophy into a relationship with postmodern culture

**An Historical Introduction to the Philosophy of Mathematics: A Reader** Russell Marcus, Mark McEvoy, 2016-02-11 A comprehensive collection of historical readings in the philosophy of mathematics and a selection of influential contemporary work this much-needed introduction reveals the rich history of the subject An Historical Introduction to the Philosophy of Mathematics A Reader brings together an impressive collection of primary sources from ancient and modern philosophy Arranged chronologically and featuring introductory overviews explaining technical terms this accessible reader is easy to follow and unrivaled in its historical scope With selections from key thinkers such as Plato Aristotle Descartes Hume and Kant it connects the major ideas of the ancients with contemporary thinkers A selection of recent texts from philosophers including Quine Putnam Field and Maddy offering insights into the current state of the discipline clearly illustrates the development of the subject Presenting historical background essential to understanding contemporary trends and a survey of recent work An Historical Introduction to the Philosophy of Mathematics A Reader is required reading for undergraduates and graduate students studying the philosophy of mathematics and an invaluable source book for working researchers

Truth 20/20: How a Global Pandemic Shaped Truth Research Adam C. Podlaskowski, Drew Johnson, 2024-09-16 This book offers a collection of papers on focal themes in truth research including

minimalism pragmatism and pluralism and philosophical logic It further provides valuable hindsight with contemporary perspectives on the works of Frege Wittgenstein Ramsey Strawson and Evans on truth and it features recent discussions on the role and value of truth in politics and political discourse The collection is based on groundbreaking presentations hosted by the Virtual International Consortium for Truth Research VICTR including talks given at the TRUTH 20 20 conference The volume features exclusive transcriptions of panel discussions on truth and factuality with Huw Price Douglas Edwards Cheryl Misak and Amie Thomasson and on truth and polarization with Michael Lynch Maria Baghramian and Cailin O Connor It includes the transcript of a televised 1973 conversation between Peter Strawson and Gareth Evans And the volume features new contributions from established and early career researchers in the field Anyone interested in the nature and value of truth will find this volume to be indispensable

Introduction to Logic and Theory of Knowledge Edmund Husserl, 2008-08-26 Claire Ortiz Hill The publication of all but a small unfound part of the complete text of the lecture course on logic and theory of knowledge that Edmund Husserl gave at G ttingen during the winter semester of 1906 07 became a reality in 1984 with the publication of *Einleitung in die Logik und Erkenntnistheorie Vorlesungen 1906 07* edited by 1 Ullrich Melle Published in that volume were also 27 appendices containing material selected to complement the content of the main text in significant ways They provide valuable insight into the evolution of Husserl s thought between the *Logical Investigations* and *Ideas I* and therefore into the origins of phenomenology That text and all those appendices but one are translated and published in the present volume Omitted are only the Personal Notes dated September 25 1906 November 4 1907 and March 6 1908 which were translated by Dallas Willard and published in his translation of Husserl s *Early 20th Century Writings in the Philosophy of Logic and Mathematics* Introduction to Logic and Theory of Knowledge Lectures 1906 07 provides valuable insight into the development of the ideas from mental to phenomenology Besides shedding considerable light on the genesis of phenomenology it sheds needed light on many other dimensions of Husserl s thought that have puzzled and challenged scholars

What is Scientific Knowledge? Kevin McCain, Kostas Kampourakis, 2019-06-11 What Is Scientific Knowledge is a much needed collection of introductory level chapters on the epistemology of science Renowned historians philosophers science educators and cognitive scientists have authored 19 original contributions specifically for this volume The chapters accessible for students in both philosophy and the sciences serve as helpful introductions to the primary debates surrounding scientific knowledge First year undergraduates can readily understand the variety of discussions in the volume and yet advanced students and scholars will encounter chapters rich enough to engage their many interests The variety and coverage in this volume make it the perfect choice for the primary text in courses on scientific knowledge It can also be used as a supplemental book in classes in epistemology philosophy of science and other related areas Key features an accessible and comprehensive introduction to the epistemology of science for a wide variety of students both undergraduate and graduate level and researchers written by an international team of senior researchers and the most promising junior

scholars addresses several questions that students and lay people interested in science may already have including questions about how scientific knowledge is gained its nature and the challenges it faces

**The Oxford Handbook of Philosophical Methodology** Herman Cappelen, Tamar Szabó Gendler, John Hawthorne, 2016-06-23 This is the most comprehensive book ever published on philosophical methodology A team of thirty eight of the world s leading philosophers present original essays on various aspects of how philosophy should be and is done The first part is devoted to broad traditions and approaches to philosophical methodology including logical empiricism phenomenology and ordinary language philosophy The entries in the second part address topics in philosophical methodology such as intuitions conceptual analysis and transcendental arguments The third part of the book is devoted to essays about the interconnections between philosophy and neighbouring fields including those of mathematics psychology literature and film and neuroscience

**Perspectives on Psychologism** M.A. Notturmo, 2023-03-13

*The Philosophy of Mathematics Education* Paul Ernest, 2002-11-01 Although many agree that all teaching rests on a theory of knowledge there has been no in depth exploration of the implications of the philosophy of mathematics for education This is Paul Ernest s aim Building on the work of Lakatos and Wittgenstein it challenges the prevalent notion that mathematical knowledge is certain absolute and neutral and offers instead an account of mathematics as a social construction This has profound educational implications for social issues including gender race and multiculturalism for pedagogy including investigations and problem solving and challenges hierarchical views of mathematics learning and ability Beyond this the book offers a well grounded model of five educational ideologies each with its own epistemology values aims and social group of adherents An analysis of the impact of these groups on the National Curriculum results in a powerful critique revealing the questionable assumptions values and interests upon which it rests The book finishes on an optimistic note arguing that pedagogy left unspecified by the National Curriculum is the way to achieve the radical aims of educating confident problem posers and solvers who are able to critically evaluate the social uses of mathematics

**The Cambridge Companion to Bertrand Russell** Nicholas Griffin, 2003-06-23 Mathematics in and behind Russell s logicism and its reception I Grattan Guinness Russell s philosophical background Nicholas Griffin Russell and Moore 1898 1905 Richard L Cartwright Russell and Frege Michael Beaney Bertrand Russell s logicism Martin Godwyn and Andrew D Irvine The theory of descriptions Peter Hylton Russell s substitutional theory Gregory Landini The theory of types Alasdair Urquhart Russell s method of analysis Paul Hager Russell s neutral monism R E Tully The metaphysics of logical atomism Bernard Linksy Russell s structuralism and the absolute description of the world William Demopoulos From knowledge by acquaintance to knowledge by causation Thomas Baldwin Russell experience and the roots of science A C Grayling Bertrand Russell moral philosopher or unphilosophical moralist Charles R Pidgen

*The Routledge Handbook of Linguistic Reference* Stephen Biggs, Heimir Geirsson, 2020-12-23 This Handbook offers students and more advanced readers a valuable resource for understanding linguistic reference the relation between an expression word phrase sentence and

what that expression is about The volume s forty one original chapters written by many of today s leading philosophers of language are organized into ten parts Early Descriptive Theories Causal Theories of Reference Causal Theories and Cognitive Significance Alternate Theories Two Dimensional Semantics Natural Kind Terms and Rigidity The Empty Case Singular De Re Thoughts Indexicals Epistemology of Reference Contributions consider what kinds of expressions actually refer names general terms indexicals empty terms sentences what referring expressions refer to what makes an expression refer to whatever it does connections between meaning and reference and how we know facts about reference Many contributions also develop connections between linguistic reference and issues in metaphysics epistemology philosophy of mind and philosophy of science

**Frege in Perspective** Joan Weiner, 2018-05-31 Not only can the influence of Gottlob Frege 1848 1925 be found in contemporary work in logic the philosophy of mathematics and the philosophy of language but his projects and the very terminology he employed in pursuing those projects are still current in contemporary philosophy This is undoubtedly why it seems so reasonable to assume that we can read Frege s writings as if he were one of us speaking to our philosophical concerns in our language In Joan Weiner s view however Frege s words can be accurately interpreted only if we set that assumption aside Weiner here offers a challenging new approach to the philosophy of this central figure in analytic philosophy Weiner finds in Frege s corpus from *Begriffsschrift* 1879 on a unified project of remarkable ambition to which each of the writings in that corpus makes a distinct contribution a project whose motivation she brings to life through a careful reading of his *Foundations of Arithmetic* The Frege that Weiner brings into clear view is very different from the familiar figure Far from having originated one of the standard positions on the nature of reference Frege turns out not to have had positive doctrines on anything like what contemporary philosophers mean by reference Far from having served as a standard bearer for those who take the realists side of contemporary disputes with anti realists Frege turns out to have had no stake in either side of the controversy Through Weiner s lens Frege emerges as a thinker who has principled reasons for challenging the very assumptions and motivations that animate philosophers to dispute these doctrines This lucidly written and accessible book will generate controversy among all readers with an interest in epistemology philosophy of language history of philosophy and the philosophy of mathematics

The A to Z of Logic Harry J. Gensler, 2010-02-12 The A to Z of Logic introduces the central concepts of the field in a series of brief non technical cross referenced dictionary entries The 352 alphabetically arranged entries give a clear basic introduction to a very broad range of logical topics Entries can be found on deductive systems such as propositional logic modal logic deontic logic temporal logic set theory many valued logic mereology and paraconsistent logic Similarly there are entries on topics relating to those previously mentioned such as negation conditionals truth tables and proofs Historical periods and figures are also covered including ancient logic medieval logic Buddhist logic Aristotle Ockham Boole Frege Russell G del and Quine There are even entries relating logic to other areas and topics like biology computers ethics gender God psychology metaphysics abstract entities algorithms the ad



hominem fallacy inductive logic informal logic the liar paradox metalogic philosophy of logic and software for learning logic In addition to the dictionary there is a substantial chronology listing the main events in the history of logic an introduction that sketches the central ideas of logic and how it has evolved into what it is today and an extensive bibliography of related readings This book is not only useful for specialists but also understandable to students and other beginners in the field

*The A to Z of Logic* Harry J. Gensler, 2010-02-12 The A to Z of Logic introduces the central concepts of the field in a series of brief non technical cross referenced dictionary entries The 352 alphabetically arranged entries give a clear basic introduction to a very broad range of logical topics Entries can be found on deductive systems such as propositional logic modal logic deontic logic temporal logic set theory many valued logic mereology and paraconsistent logic Similarly there are entries on topics relating to those previously mentioned such as negation conditionals truth tables and proofs Historical periods and figures are also covered including ancient logic medieval logic Buddhist logic Aristotle Ockham Boole Frege Russell G del and Quine There are even entries relating logic to other areas and topics like biology computers ethics gender God psychology metaphysics abstract entities algorithms the ad hominem fallacy inductive logic informal logic the liar paradox metalogic philosophy of logic and software for learning logic In addition to the dictionary there is a substantial chronology listing the main events in the history of logic an introduction that sketches the central ideas of logic and how it has evolved into what it is today and an extensive bibliography of related readings This book is not only useful for specialists but also understandable to students and other beginners in the field

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