

# MATHEMATICS WITHOUT NUMBERS

*Towards a Modal-Structural Interpretation*

GEOFFREY HELLMAN

CLARENDON



PAPERBACKS

# Mathematics Without Numbers Towards A Modal Structural Interpretation

**IM Harris**



## **Mathematics Without Numbers Towards A Modal Structural Interpretation:**

**Mathematics without Numbers** Geoffrey Hellman, 1989-10-12 Geoffrey Hellman presents a detailed interpretation of mathematics as the investigation of structural possibilities as opposed to absolute Platonic objects After dealing with the natural numbers and analysis he extends his approach to set theory and shows how to dispense with a fixed universe of sets Finally he addresses problems of application to the physical world The Panenmentalist Philosophy of Science Amihud Gilead, 2020-03-06 This book presents a philosophy of science based on panenmentalism an original modal metaphysics which is realist about individual pure non actual possibilities and rejects the notion of possible worlds The book systematically constructs a new and novel way of understanding and explaining scientific progress discoveries and creativity It demonstrates that a metaphysics of individual pure possibilities is indispensable for explaining and understanding mathematics and natural sciences It examines the nature of individual pure possibilities actualities mind dependent and mind independent possibilities as well as mathematical entities It discusses in detail the singularity of each human being as a psychical possibility It analyses striking scientific discoveries and illustrates by means of examples of the usefulness and vitality of individual pure possibilities in the sciences Realism and Anti-Realism Stuart Brock, Edwin Mares, 2014-12-18 There are a bewildering variety of ways the terms realism and anti realism have been used in philosophy and furthermore the different uses of these terms are only loosely connected with one another Rather than give a piecemeal map of this very diverse landscape the authors focus on what they see as the core concept realism about a particular domain is the view that there are facts or entities distinctive of that domain and their existence and nature is in some important sense objective and mind independent The authors carefully set out and explain the different realist and anti realist positions and arguments that occur in five key domains science ethics mathematics modality and fictional objects For each area the authors examine the various styles of argument in support of and against realism and anti realism show how these different positions and arguments arise in very different domains evaluate their success within these fields and draw general conclusions about these assorted strategies Error theory fictionalism non cognitivism relativism and response dependence are taken as the most important positions in opposition to the realist and these are explored in depth Suitable for advanced level undergraduates the book offers readers a clear introduction to a subject central to much contemporary work in metaphysics epistemology and philosophy of language God and Abstract Objects William Lane Craig, 2017-09-05 This book is an exploration and defense of the coherence of classical theism's doctrine of divine aseity in the face of the challenge posed by Platonism with respect to abstract objects A synoptic work in analytic philosophy of religion the book engages discussions in philosophy of mathematics philosophy of language metaphysics and metaontology It addresses absolute creationism non Platonic realism fictionalism neutralism and alternative logics and semantics among other topics The book offers a helpful taxonomy of the wide range of options available to the classical theist for dealing with the challenge of Platonism It probes in

detail the diverse views on the reality of abstract objects and their compatibility with classical theism It contains a most thorough discussion rooted in careful exegesis of the biblical and patristic basis of the doctrine of divine aseity Finally it challenges the influential Quinean metaontological theses concerning the way in which we make ontological commitments

*Philosophy in an Age of Science* Hilary Putnam, 2012-04-17 Hilary Putnam's unceasing self-criticism has led to the frequent changes of mind he is famous for but his thinking is also marked by considerable continuity A simultaneous interest in science and ethics unusual in the current climate of contention has long characterized his thought In *Philosophy in an Age of Science* Putnam collects his papers for publication his first volume in almost two decades Mario De Caro and David Macarthur's introduction identifies central themes to help the reader negotiate between Putnam past and Putnam present his critique of logical positivism his enduring aspiration to be realist about rational normativity his anti-essentialism about a range of central philosophical notions his reconciliation of the scientific worldview and the humanistic tradition and his movement from reductive scientific naturalism to liberal naturalism Putnam returns here to some of his first enthusiasms in philosophy such as logic mathematics and quantum mechanics The reader is given a glimpse too of ideas currently in development on the subject of perception Putnam's work contributing to a broad range of philosophical inquiry has been said to represent a history of recent philosophy in outline Here it also delineates a possible future

**Understanding the Infinite** Shaughan Lavine, 2009-06-30 An accessible history and philosophical commentary on our notion of infinity How can the infinite a subject so remote from our finite experience be an everyday tool for the working mathematician Blending history philosophy mathematics and logic Shaughan Lavine answers this question with exceptional clarity Making use of the mathematical work of Jan Mycielski he demonstrates that knowledge of the infinite is possible even according to strict standards that require some intuitive basis for knowledge Praise for *Understanding the Infinite* *Understanding the Infinite* is a remarkable blend of mathematics modern history philosophy and logic laced with refreshing doses of common sense It is a potted history of and a philosophical commentary on the modern notion of infinity as formalized in axiomatic set theory An amazingly readable book given the difficult subject matter Most of all it is an eminently sensible book Anyone who wants to explore the deep issues surrounding the concept of infinity will get a great deal of pleasure from it Ian Stewart *New Scientist* How in a finite world does one obtain any knowledge about the infinite Lavine argues that intuitions about the infinite derive from facts about the finite mathematics of indefinitely large size The issues are delicate but the writing is crisp and exciting the arguments original This book should interest readers whether philosophically historically or mathematically inclined and large parts are within the grasp of the general reader Highly recommended D V Feldman *Choice*

**Origins and Varieties of Logicism** Francesca Boccuni, Andrea Sereni, 2021-11-29 This book offers a plurality of perspectives on the historical origins of logicism and on contemporary developments of logicist insights in philosophy of mathematics It uniquely provides up to date research and novel interpretations on a variety of intertwined themes and historical figures related to different versions of

logicism The essays written by prominent scholars are divided into three thematic sections Part I focuses on major authors like Frege Dedekind and Russell providing a historical and theoretical exploration of such figures in the philosophical and mathematical milieu in which logicist views were first expounded Part II sheds new light on the interconnections between these founding figures and a number of influential other traditions represented by authors like Hilbert Husserl and Peano as well as on the reconsideration of logicism by Carnap and the logical empiricists Finally Part III assesses the legacy of such authors and of logicist themes for contemporary philosophy of mathematics offering new perspectives on highly debated topics neo logicism and its extension to accounts of ordinal numbers and set theory the comparison between neo Fregean and neo Dedekindian varieties of logicism and the relation between logicist foundational issues and empirical research on numerical cognition which define the prospects of logicism in the years to come This book offers a comprehensive account of the development of logicism and its contemporary relevance for the logico philosophical foundations of mathematics It will be of interest to graduate students and researchers working in philosophy of mathematics philosophy of logic and the history of analytic philosophy

*Structures Mères: Semantics, Mathematics, and Cognitive Science* Alberto Peruzzi, Silvano Zipoli Caiani, 2020-09-14 This book reports on cutting edge concepts related to Bourbaki's notion of structures *m res* It merges perspectives from logic philosophy linguistics and cognitive science suggesting how they can be combined with Bourbaki's mathematical structuralism in order to solve foundational ontological and epistemological problems using a novel category theoretic approach By offering a comprehensive account of Bourbaki's structuralism and answers to several important questions that have arisen in connection with it the book provides readers with a unique source of information and inspiration for future research on this topic

*The Many and the One* Salvatore Florio, Øystein Linnebo, 2021 Plural logic has seen a surge of interest in recent years This book explores its broader significance for philosophy logic and linguistics What can plural logic do for us Are the bold claims made on its behalf correct The result is a more nuanced picture of plural logic's applications than has been given thus far

*The Bloomsbury Companion to Metaphysics* Neil A. Manson, Robert W. Barnard, 2014-12-18 Bridging the gap between the familiar figures of the history of philosophy and the technical approaches favoured by contemporary philosophers The Bloomsbury Companion to Metaphysics introduces the key ideas and debates needed to understand analytic metaphysics Presenting an effective syllabus for an introductory course in contemporary metaphysics this companion brings together a team of leading metaphysicians It begins with a comprehensive introduction to methodological problems and methods before tackling the perennial metaphysical questions surrounding core topics such as Modality Universals and Abstract Objects Naturalism and Physicalism Mind Free Will God

**Semantics and the Ontology of Number** Eric Snyder, 2021-05-20 What are the meanings of number expressions and what can they tell us about questions of central importance to the philosophy of mathematics specifically Do numbers exist This Element attempts to shed light on this question by outlining a recent debate between substantivalists and adjectivalists regarding the semantic function of

number words in numerical statements After highlighting their motivations and challenges I develop a comprehensive polymorphic semantics for number expressions I argue that accounting for the numerous meanings and how they are related leads to a strengthened argument for realism one which renders familiar forms of nominalism highly implausible     The Routledge Handbook of Modality Otávio Bueno, Scott A. Shalkowski, 2020-12-30 Modality the question of what is possible and what is necessary is a fundamental area of philosophy and philosophical research The Routledge Handbook of Modality is an outstanding reference source to the key topics problems and debates in this exciting subject and is the first collection of its kind Comprising thirty five chapters by a team of international contributors the Handbook is divided into seven clear parts worlds and modality essentialism ontological dependence and modality modal anti realism epistemology of modality modality in science modality in logic and mathematics modality in the history of philosophy Within these sections the central issues debates and problems are examined including possible worlds essentialism counterfactuals ontological dependence modal fictionalism deflationism the integration challenge conceivability a priori knowledge laws of nature natural kinds and logical necessity The Routledge Handbook of Modality is essential reading for students and researchers in epistemology metaphysics and philosophy of language It will also be very useful for those in related fields in philosophy such as philosophy of mathematics logic and philosophy of science     *Nelson Goodman* Daniel Cohnitz, Marcus Rossberg, 2014-12-18 Nelson Goodman s acceptance and critique of certain methods and tenets of positivism his defence of nominalism and phenomenalism his formulation of a new riddle of induction his work on notational systems and his analysis of the arts place him at the forefront of the history and development of American philosophy in the twentieth century However outside of America Goodman has been a rather neglected figure In this first book length introduction to his work Cohnitz and Rossberg assess Goodman s lasting contribution to philosophy and show that although some of his views may be now considered unfashionable or unorthodox there is much in Goodman s work that is of significance today The book begins with the grue paradox which exemplifies Goodman s way of dealing with philosophical problems After this the unifying features of Goodman s philosophy are presented his constructivism conventionalism and relativism followed by an discussion of his central work *The Structure of Appearance* and its significance in the analytic tradition The following chapters present the technical apparatus that underlies his philosophy his mereology and semiotics which provides the background for discussion of Goodman s aesthetics The final chapter examines in greater depth the presuppositions underlying his philosophy

**Rules to Infinity** Mark Povich, 2024 *Rules to Infinity* defends the thesis that mathematics contributes to the explanatory power of science by expressing conceptual rules that allow for the transformation of empirical descriptions It claims that mathematics should not be thought of as describing in any substantive sense an abstract realm of eternal mathematical objects as traditional Platonists have thought     **Oxford Studies in Philosophy of Mind** Uriah Kriegel, 2024-09-21 *Oxford Studies in Philosophy of Mind* presents cutting edge work in the philosophy of mind combining invited articles and articles

selected from submissions Each volume will highlight two themes to bring focus to debates The series will reflect the diversity of methods adopted in contemporary philosophy of mind and provide a venue for rigorous and innovative work by both established and up and coming voices in the field The themes covered in the fourth volume are twenty first century idealism acquaintance and perception and acquaintance and consciousness It also contains a book symposium on David Chalmers Reality and an article on Aristotle s philosophy of mind

**Everything, more or less** J. P. Studd,2019-04-04

Almost no systematic theorizing is generality free Scientists test general hypotheses set theorists prove theorems about every set metaphysicians espouse theses about all things regardless of their kind But how general can we be and do we ever succeed in theorizing about absolutely everything Not according to generality relativism In its most promising form this kind of relativism maintains that what everything and other quantifiers encompass is always open to expansion no matter how broadly we may generalize a more inclusive everything is always available The importance of the issue comes out in part in relation to the foundations of mathematics Generality relativism opens the way to avoid Russell s paradox without imposing ad hoc limitations on which pluralities of items may be encoded as a set On the other hand generality relativism faces numerous challenges What are we to make of seemingly absolutely general theories What prevents our achieving absolute generality simply by using everything unrestrictedly How are we to characterize relativism without making use of exactly the kind of generality this view forswears This book offers a sustained defence of generality relativism that seeks to answer these challenges Along the way the contemporary absolute generality debate is traced through diverse issues in metaphysics logic and the philosophy of language some of the key works that lie behind the debate are reassessed an accessible introduction is given to the relevant mathematics and a relativist friendly motivation for Zermelo Fraenkel set theory is developed

**Mathematics and Its Logics** Geoffrey Hellman,2021-02-04

In these essays Geoffrey Hellman presents a strong case for a healthy pluralism in mathematics and its logics supporting peaceful coexistence despite what appear to be contradictions between different systems and positing different frameworks serving different legitimate purposes The essays refine and extend Hellman s modal structuralist account of mathematics developing a height potentialist view of higher set theory which recognizes indefinite extendability of models and stages at which sets occur In the first of three new essays written for this volume Hellman shows how extendability can be deployed to derive the axiom of Infinity and that of Replacement improving on earlier accounts he also shows how extendability leads to attractive novel resolutions of the set theoretic paradoxes Other essays explore advantages and limitations of restrictive systems nominalist predicativist and constructivist Also included are two essays with Solomon Feferman on predicative foundations of arithmetic

**The Semantic Conception of Logic** Gil Sagi,Jack Woods,2021-09-09

This collection of new essays presents cutting edge research on the semantic conception of logic the invariance criteria of logicity grammaticality and logical truth Contributors explore the history of the semantic tradition starting with Tarski and its historical applications while central

criticisms of the tradition and especially the use of invariance criteria to explain logicity are revisited by the original participants in that debate Other essays discuss more recent criticism of the approach and researchers from mathematics and linguistics weigh in on the role of the semantic tradition in their disciplines This book will be invaluable to philosophers and logicians alike The Prehistory of Mathematical Structuralism Erich H. Reck, Georg Schiemer, 2020 This edited volume explores the previously underacknowledged pre history of mathematical structuralism showing that structuralism has deep roots in the history of modern mathematics The contributors explore this history along two distinct but interconnected dimensions First they reconsider the methodological contributions of major figures in the history of mathematics Second they re examine a range of philosophical reflections from mathematically inclined philosophers like Russell Carnap and Quine whose work led to profound conclusions about logical epistemological and metaphysical aspects of structuralism

**Mathematics and Its Applications** Jairo José da Silva, 2017-08-22 This monograph offers a fresh perspective on the applicability of mathematics in science It explores what mathematics must be so that its applications to the empirical world do not constitute a mystery In the process readers are presented with a new version of mathematical structuralism The author details a philosophy of mathematics in which the problem of its applicability particularly in physics in all its forms can be explained and justified Chapters cover mathematics as a formal science mathematical ontology what does it mean to exist mathematical structures what are they and how do we know them how different layers of mathematical structuring relate to each other and to perceptual structures and how to use mathematics to find out how the world is The book simultaneously develops along two lines both inspired and enlightened by Edmund Husserl's phenomenological philosophy One line leads to the establishment of a particular version of mathematical structuralism free of naturalist and empiricist bias The other leads to a logical epistemological explanation and justification of the applicability of mathematics carried out within a unique structuralist perspective This second line points to the unreasonable effectiveness of mathematics in physics as a means of representation a tool and a source of not always logically justified but useful and effective heuristic strategies



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