

# Philosophy of Mathematics: Structure and Ontology

Stewart Shapiro



# Philosophy Of Mathematics Structure And Ontology

**Penelope Rush**



## **Philosophy Of Mathematics Structure And Ontology:**

*Philosophy of Mathematics* Stewart Shapiro, 1997-08-07 Do numbers sets and so forth exist What do mathematical statements mean Are they literally true or false or do they lack truth values altogether Addressing questions that have attracted lively debate in recent years Stewart Shapiro contends that standard realist and antirealist accounts of mathematics are both problematic As Benacerraf first noted we are confronted with the following powerful dilemma The desired continuity between mathematical and say scientific language suggests realism but realism in this context suggests seemingly intractable epistemic problems As a way out of this dilemma Shapiro articulates a structuralist approach On this view the subject matter of arithmetic for example is not a fixed domain of numbers independent of each other but rather is the natural number structure the pattern common to any system of objects that has an initial object and successor relation satisfying the induction principle Using this framework realism in mathematics can be preserved without troublesome epistemic consequences Shapiro concludes by showing how a structuralist approach can be applied to wider philosophical questions such as the nature of an object and the Quinean nature of ontological commitment Clear compelling and tautly argued Shapiro's work noteworthy both in its attempt to develop a full length structuralist approach to mathematics and to trace its emergence in the history of mathematics will be of deep interest to both philosophers and mathematicians

Philosophy of Mathematics Stewart Shapiro, 2000      **Philosophy of Mathematics**, 1997      Philosophy of Mathematics Stewart Shapiro, 1997      **Ontology and the Foundations of Mathematics** Penelope Rush, 2022-02-10 This Element looks at the problem of inter translation between mathematical realism and anti realism and argues that so far as realism is inter translatable with anti realism there is a burden on the realist to show how her posited reality differs from that of the anti realist It also argues that an effective defence of just such a difference needs a commitment to the independence of mathematical reality which in turn involves a commitment to the ontological access problem the problem of how knowable mathematical truths are identifiable with a reality independent of us as knowers Specifically if the only access problem acknowledged is the epistemological problem i.e the problem of how we come to know mathematical truths then nothing is gained by the realist notion of an independent reality and in effect nothing distinguishes realism from anti realism in mathematics      Columbia Companion to Twentieth-century Philosophies Constantin V. Boundas, 2007 Columbia Companion to Twentieth Century Philosophies is the first guide to cover both the Anglo American analytic and European Continental traditions The first section features Nicholas Rescher writing on neoidealism Josephine Donovan commenting on feminist philosophy Tyler Burge discussing the philosophy of language and mind and Robert Hanna reflecting on Kant's legacy The second section presents Jean Grondin on hermeneutics Leonard Lawlor on phenomenology Charles Scott on postmodernism and Babette Babich on the philosophy of science The volume also covers logical positivism naturalism pragmatism aesthetics existentialism Marxism the Frankfurt School structuralism psychoanalysis political philosophy ethics and the philosophy of

religion The final section addresses concurrent trends in Indian Chinese Japanese and African philosophy and a comprehensive introduction by Constantin V Boundas not only provides a thorough outline of the problems and issues of the analytic and Continental traditions but also boldly challenges the conviction that the two approaches must be rivals Offering an unusually panoramic perspective the Columbia Companion to Twentieth Century Philosophies enables readers to encounter foundational materials on their own terms

*Varieties of Logic* Stewart Shapiro, 2014-09-04 Logical pluralism is the view that different logics are equally appropriate or equally correct Logical relativism is a pluralism according to which validity and logical consequence are relative to something In *Varieties of Logic* Stewart Shapiro develops several ways in which one can be a pluralist or relativist about logic One of these is an extended argument that words and phrases like valid and logical consequence are polysemous or perhaps better are cluster concepts The notions can be sharpened in various ways This explains away the debates in the literature between inferentialists and advocates of a truth conditional model theoretic approach and between those who advocate higher order logic and those who insist that logic is first order A significant kind of pluralism flows from an orientation toward mathematics that emerged toward the end of the nineteenth century and continues to dominate the field today The theme is that consistency is the only legitimate criterion for a theory Logical pluralism arises when one considers a number of interesting and important mathematical theories that invoke a non classical logic and are rendered inconsistent and trivial if classical logic is imposed So validity is relative to a theory or structure The perspective raises a host of important questions about meaning The most significant of these concern the semantic content of logical terminology words like or not and for all as they occur in rigorous mathematical deduction Does the intuitionistic not for example have the same meaning as its classical counterpart Shapiro examines the major arguments on the issue on both sides and finds them all wanting He then articulates and defends a thesis that the question of meaning shift is itself context sensitive and indeed interest relative He relates the issue to some prominent considerations concerning open texture vagueness and verbal disputes Logic is ubiquitous Whenever there is deductive reasoning there is logic So there are questions about logical pluralism that are analogous to standard questions about global relativism The most pressing of these concerns foundational studies wherein one compares theories sometimes with different logics and where one figures out what follows from what in a given logic Shapiro shows that the issues are not problematic and that is usually easy to keep track of the logic being used and the one mentioned

**The Oxford Handbook of Truth** Michael Glanzberg, 2018-06-26 Truth is one of the central concepts in philosophy and has been a perennial subject of study Michael Glanzberg has brought together 36 leading experts from around the world to produce the definitive guide to philosophical issues to do with truth They consider how the concept of truth has been understood from antiquity to the present day surveying major debates about truth during the emergence of analytic philosophy They offer critical assessments of the standard theories of truth including the coherence correspondence identity and pragmatist theories They explore the role of truth in metaphysics with lively

discussion of truthmakers proposition determinacy objectivity deflationism fictionalism relativism and pluralism Finally the handbook explores broader applications of truth in philosophy including ethics science and mathematics and reviews formal work on truth and its application to semantic paradox This Oxford Handbook will be an invaluable resource across all areas of philosophy

**Categories for the Working Philosopher** Elaine M. Landry, 2017 This is the first volume on category theory for a broad philosophical readership It is designed to show the interest and significance of category theory for a range of philosophical interests mathematics proof theory computation cognition scientific modelling physics ontology the structure of the world Each chapter is written by either a category theorist or a philosopher working in one of the represented areas in an accessible way that builds on the concepts that are already familiar to philosophers working in these areas

**A Logical Foundation for Potentialist Set Theory** Sharon Berry, 2022-02-17 In many ways set theory lies at the heart of modern mathematics and it does powerful work both philosophical and mathematical as a foundation for the subject However certain philosophical problems raise serious doubts about our acceptance of the axioms of set theory In a detailed and original reassessment of these axioms Sharon Berry uses a potentialist as opposed to actualist approach to develop a unified determinate conception of set theoretic truth that vindicates many of our intuitive expectations regarding set theory Berry further defends her approach against a number of possible objections and she shows how a notion of logical possibility that is useful in formulating Potentialist set theory connects in important ways with philosophy of language metametaphysics and philosophy of science Her book will appeal to readers with interests in the philosophy of set theory modal logic and the role of mathematics in the sciences

**Mathematical Thought and its Objects** Charles Parsons, 2007-12-24 Charles Parsons examines the notion of object with the aim to navigate between nominalism denying that distinctively mathematical objects exist and forms of Platonism that postulate a transcendent realm of such objects He introduces the central mathematical notion of structure and defends a version of the structuralist view of mathematical objects according to which their existence is relative to a structure and they have no more of a nature than that confers on them Parsons also analyzes the concept of intuition and presents a conception of it distantly inspired by that of Kant which describes a basic kind of access to abstract objects and an element of a first conception of the infinite

**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 **Number Concepts** Richard Samuels, Eric Snyder, 2024-02-15 This Element written for researchers and students in philosophy and the behavioral sciences reviews and critically assesses extant work on number concepts in developmental psychology and cognitive science It has four main aims First it characterizes the core commitments of mainstream number cognition research including the commitment to representationalism the hypothesis that there exist certain number specific cognitive systems and the key milestones in the development of number cognition Second it provides a taxonomy of influential views within mainstream number cognition research along with the central challenges these views face Third it identifies and critically assesses a series of core philosophical assumptions often adopted by number cognition researchers Finally the Element articulates and defends a novel version of pluralism about number concepts

**Mathematical Rigour and Informal Proof** Fenner Stanley Tanswell, 2024-03-28 This Element looks at the contemporary debate on the nature of mathematical rigour and informal proofs as found in mathematical practice The central argument is for rigour pluralism that multiple different models of informal proof are good at accounting for different features and functions of the concept of rigour To illustrate this pluralism the Element surveys some of the main options in the literature the standard view that rigour is just formal logical rigour the models of proofs as arguments and dialogues the recipe model of proofs as guiding actions and activities and the idea of mathematical rigour as an intellectual virtue The strengths and weaknesses of each are assessed thereby providing an accessible and empirically informed introduction to the key issues and ideas found in the current discussion **Indispensability** A. C. Paseau, Alan Baker, 2023-06-08 Our best scientific theories explain a wide range of empirical phenomena make accurate predictions and are widely believed Since many of these theories make ample use of mathematics it is natural to see them as confirming its truth Perhaps the use of mathematics in science even gives us reason to believe in the existence of abstract mathematical objects such as numbers and sets These issues lie at the heart of the Indispensability Argument to which this Element is devoted The Element's first half traces the evolution of the Indispensability Argument from its origins in Quine and Putnam's works taking in naturalism confirmational holism Field's program and the use of idealisations in science along the way Its second half examines the explanatory version of the Indispensability Argument and focuses on several more recent versions of easy road and hard road fictionalism respectively

**Mathematical Anti-Realism and Modal Nothingism** Mark Balaguer, 2023-01-05 This Element defends mathematical anti realism against an underappreciated problem with that view a problem having to do with modal truthmaking Part I develops mathematical anti realism it defends that view against a number of well known objections and it raises a less widely discussed objection to anti realism an objection based on the fact that a mathematical anti realists need to commit to the truth of certain kinds of modal claims and b it's not clear that the truth of these modal claims is compatible with mathematical anti realism Part II considers various strategies that anti realists might pursue in trying to

solve this modal truth problem with their view it argues that there s only one viable view that anti realists can endorse in order to solve the modal truth problem and it argues that the view in question which is here called modal nothingism is true

**The Euclidean Programme** A. C. Paseau, Wesley Wrigley, 2024-02-22 The Euclidean Programme embodies a traditional sort of epistemological foundationalism according to which knowledge especially mathematical knowledge is obtained by deduction from self evident axioms or first principles Epistemologists have examined foundationalism extensively but neglected its historically dominant Euclidean form By contrast this book offers a detailed examination of Euclidean foundationalism which following Lakatos the authors call the Euclidean Programme The book rationally reconstructs the programme s key principles showing it to be an epistemological interpretation of the axiomatic method It then compares the reconstructed programme with select historical sources Euclid s Elements Aristotle s Posterior Analytics Descartes s Discourse on Method Pascal s On the Geometric Mind and a twentieth century account of axiomatisation The second half of the book philosophically assesses the programme exploring whether various areas of contemporary mathematics conform to it The book concludes by outlining a replacement for the Euclidean Programme

Language and World Richard Gaskin, 2020-07-06 This book defends a version of linguistic idealism the thesis that the world is a product of language In the course of defending this radical thesis Gaskin addresses a wide range of topics in contemporary metaphysics philosophy of language philosophical logic and syntax theory Starting from the context and compositionality principles and the idea of a systematic theory of meaning in the Tarski Davidson tradition Gaskin argues that the sentence is the primary unit of linguistic meaning and that the main aspects of meaning sense and reference are themselves theoretical posits Ontology which is correlative with reference emerges as language driven This linguistic idealism is combined with a realism that accepts the objectivity of science and it is accordingly distinguished from empirical pragmatism Gaskin contends that there is a basic metaphysical level at which everything is expressible in language but the vindication of linguistic idealism is nuanced inasmuch as there is also a derived level asymmetrically dependant on the basic level at which reality can break free of language and reach into the realms of the unnameable and indescribable Language and World will be of interest to scholars and advanced students working in metaphysics philosophy of language and linguistics

*Varieties of Continua* Geoffrey Hellman, Stewart Shapiro, 2018-02-02 Varieties of Continua explores the development of the idea of the continuous Hellman and Shapiro begin with two historical episodes The first is the remarkably rapid transition in the course of the nineteenth century from the ancient Aristotelian view that a true continuum cannot be composed of points to the now standard point based frameworks for analysis and geometry found in modern mainstream mathematics stemming from the work of Bolzano Cauchy Weierstrass Dedekind Cantor et al The second is the mid to late twentieth century revival of pre limit methods in analysis and geometry using infinitesimals including non standard analysis due to Abraham Robinson and the more radical smooth infinitesimal analysis that uses intuitionistic logic Hellman and Shapiro present a systematic comparison of these and

related alternatives including constructivist and predicative conceptions weighing various trade offs helping articulate a modern pluralist perspective and articulate a modern pluralist perspective on continuity The main creative work of the book is the development of rigorous regions based theories of classical continua including Euclidean and non Euclidean geometries that are mathematically equivalent inter reducible to the currently standard point based accounts in mainstream mathematics

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



## Whispering the Techniques of Language: An Emotional Journey through **Philosophy Of Mathematics Structure And Ontology**

In a digitally-driven earth where monitors reign supreme and quick connection drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases usually get unheard. Yet, located within the pages of **Philosophy Of Mathematics Structure And Ontology** a captivating literary prize sporting with fresh thoughts, lies a fantastic quest waiting to be undertaken. Penned by a skilled wordsmith, this charming opus invites readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very fabric of each word. Within the mental depths of this emotional review, we shall embark upon a honest exploration of the book is primary subjects, dissect their captivating writing model, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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