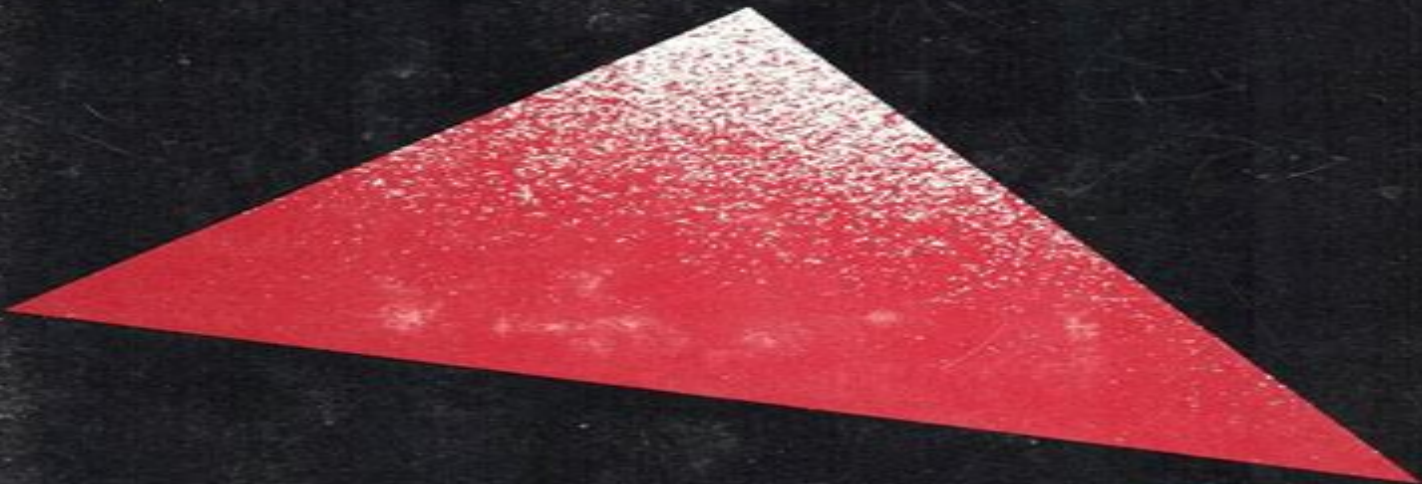




Science Without Numbers

A Defence of Nominalism

H A R T R Y H . F I E L D

Science Without Numbers A Defence Of Nominalism

A. Reutlinger



Science Without Numbers A Defence Of Nominalism:

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Science Without Numbers Hartry Field, 2015-08-11 According to the doctrine of nominalism abstract entities such as numbers functions and sets do not exist The problem this normally poses for a description of the physical world is as follows any such description must include a physical theory physical theories are assumed to require mathematics and mathematics is replete with references to abstract entities How then can nominalism reasonably be maintained In answer Hartry Field shows how abstract entities ultimately are dispensable in describing the physical world and that indeed we can do science without numbers The author also argues that despite the ultimate dispensability of mathematical entities mathematics remains useful and that its usefulness can be explained by the nominalist The explanation of the utility of mathematics does not presuppose that mathematics is true but only that it is consistent The argument that the nominalist can freely use mathematics in certain contexts without assuming it to be true appears early on and it first seems to license only a quite limited use of mathematics But when combined with the later argument that abstract entities ultimately are dispensable in physical theories the conclusion emerges that even the most sophisticated applications of mathematics depend only on the assumption that mathematics is consistent and not on the assumption that it is true Originally published in 2050 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

[The Routledge Handbook of Scientific Realism](#) Juha Saatsi, 2017-11-22 Scientific realism is a central long standing and hotly debated topic in philosophy of science Debates about scientific realism concern the very nature and extent of scientific knowledge and progress Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses Various realist theses are under sceptical fire from scientific antirealists e g empiricists and instrumentalists The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond The Routledge Handbook of Scientific Realism is an outstanding reference source the first collection of its kind to the key issues positions and arguments in this important topic Its thirty four chapters written by a team of international experts are divided into five parts Historical development of the realist stance Classic debate core

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Metaphysics and Ontology Without Myths Fabio Bacchini, 2014-10-02 Metaphysics and ontology feature among the traditional and fundamental concerns of philosophers Gaining a picture of the world and the kind of objects that exist out there is for most philosophers past and present a preliminary aim upon which other theoretical activities depend In fact it seems that sound conclusions on topics relevant to ethics aesthetics psychology and common and scientific knowledge can be achieved only after one has been given a picture of that sort What is worth stressing though is that from time to time the tribunal of history has managed to put its finger on some flawed conclusions To take a time worn example who would now accept Plato's claim that the spatiotemporal world is just an imperfect copy of a world of abstract objects conceived of as perfect unchanging models of concrete things The picture Plato gave us is nothing but a myth an account which is too far away from what common sense and science could accept too detached from the usual ways of conducting a rational discussion Therefore pictures of this kind appear to be supported by nothing but dogmas i.e. uncompromising principles taken as true without any previous critical analysis And Plato has no shortage of company Issues of this kind revolving around metaphysics and ontology are tackled in the essays in this volume which approach a secular debate in fresh and original ways providing the necessary tools for clearing the field of unpalatable metaphysical and ontological items

Special Sciences and the Unity of Science Olga Pombo, Juan Manuel Torres, John Symons, Shahid Rahman, 2012-02-01 Science is a dynamic process in which the assimilation of new phenomena perspectives and hypotheses into the scientific corpus takes place slowly The apparent disunity of the sciences is the unavoidable consequence of this gradual integration process Some thinkers label this dynamical circumstance a crisis However a retrospective view of the practical results of the scientific enterprise and of science itself grants us a clear view of the unity of the human knowledge seeking enterprise This book provides many arguments case studies and examples in favor of the unity of science These contributions touch upon various scientific perspectives and disciplines such as Physics Computer Science Biology Neuroscience Cognitive Psychology and Economics

Introduction to the Philosophy of Science Merrilee H. Salmon, Clark Glymour, 1999-01-01 Originally published Englewood Cliffs N J Prentice Hall c1992

God Over All William Lane Craig, 2016-10-13 God Over All Divine Aseity and the Challenge of Platonism is a defense of God's aseity and unique status as the Creator of all things apart from Himself in the face of the challenge posed by mathematical Platonism After

providing the biblical theological and philosophical basis for the traditional doctrine of divine aseity William Lane Craig explains the challenge presented to that doctrine by the Indispensability Argument for Platonism which postulates the existence of uncreated abstract objects Craig provides detailed examination of a wide range of responses to that argument both realist and anti realist with a view toward assessing the most promising options for the theist A synoptic work in analytic philosophy of religion this groundbreaking volume engages discussions in philosophy of mathematics philosophy of language metaphysics and metaontology

A Minimalist Ontology of the Natural World Michael Esfeld,Dirk-Andre Deckert,2017-10-25 This book seeks to work out which commitments are minimally sufficient to obtain an ontology of the natural world that matches all of today s well established physical theories We propose an ontology of the natural world that is defined only by two axioms 1 There are distance relations that individuate simple objects namely matter points 2 The matter points are permanent with the distances between them changing Everything else comes in as a means to represent the change in the distance relations in a manner that is both as simple and as informative as possible The book works this minimalist ontology out in philosophical as well as mathematical terms and shows how one can understand classical mechanics quantum field theory and relativistic physics on the basis of this ontology Along the way we seek to achieve four subsidiary aims a to make a case for a holistic individuation of the basic objects ontic structural realism b to work out a new version of Humeanism dubbed Super Humeanism that does without natural properties c to set out an ontology of quantum physics that is an alternative to quantum state realism and that avoids any ontological dualism of particles and fields d to vindicate a relationalist ontology based on point objects also in the domain of relativistic physics

Explanation in Ethics and Mathematics Uri D. Leibowitz,Neil Sinclair,2016 How far should our realism extend For many years philosophers of mathematics and philosophers of ethics have worked independently to address the question of how best to understand the entities apparently referred to by mathematical and ethical talk But the similarities between their endeavours are not often emphasised This book provides that emphasis In particular it focuses on two types of argumentative strategies that have been deployed in both areas The first debunking arguments aims to put pressure on realism by emphasising the seeming redundancy of mathematical or moral entities when it comes to explaining our judgements In the moral realm this challenge has been made by Gilbert Harman and Sharon Street in the mathematical realm it is known as the Benacerraf Field problem The second strategy indispensability arguments aims to provide support for realism by emphasising the seeming intellectual indispensability of mathematical or moral entities for example when constructing good explanatory theories This strategy is associated with Quine and Putnam in mathematics and with Nicholas Sturgeon and David Enoch in ethics Explanation in Ethics and Mathematics addresses these issues through an explicitly comparative methodology which we call the companions in illumination approach By considering how argumentative strategies in the philosophy of mathematics might apply to the philosophy of ethics and vice versa the papers collected here break new ground in both areas For good measure two further

companions for illumination are also broached the philosophy of chance and the philosophy of religion Collectively these comparisons light up new questions arguments and problems of interest to scholars interested in realism in any area **A Theory of Causation in the Social and Biological Sciences** A. Reutlinger,2013-03-18 This first full length treatment of interventionist theories of causation in the social sciences the biological sciences and other higher level sciences the presents original counter arguments to recent trends in the debate and serves as useful introduction to the subject 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 **Abstract Objects** David Liggins,2024-02-28 Philosophers often debate the existence of such things as numbers and propositions and say that if these objects exist they are abstract But what does it mean to call something abstract And do we have good reason to believe in the existence of abstract objects This Element addresses those questions putting newcomers to these debates in a position to understand what they concern and what are the most influential considerations at work in this area of metaphysics It also provides advice on which lines of discussion promise to be the most fruitful Russell's Unknown Logicism S. Gandon,2012-08-30 In this excellent book Sebastien Gandon focuses mainly on Russell s two major texts Principia Mathematica and Principle of Mathematics meticulously unpicking the details of these texts and bringing a new interpretation of both the mathematical and the philosophical content Winner of The Bertrand Russell Society Book Award 2013 *Philosophical Approaches to the Foundations of Logic and Mathematics* Marcin Trepczyński,2021-01-25 Eleven papers collected in the volume Philosophical Approaches to the Foundations of Logic and Mathematics address various aspects of the roots basic concepts and the nature of logic and mathematics Taken together these papers reveal how many serious philosophical problems lie at the foundations of logic and mathematics The topics discussed in this volume include transcending anti foundationalism and two concurrent trends of anthropological and practical understanding of the foundations of mathematics new approaches to mathematical realism the roots of logic in a genetic perspective the primacy of truth or satisfaction and the effectiveness of mathematics in terms of categorical semantics **An Introduction to the Philosophy of Mind** E. Jonathan Lowe,2000-01-20 A lucid and wide ranging introduction to the philosophy of mind suitable for readers with a basic grounding in philosophy 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 Routledge Handbook of Properties A.R.J. Fisher, Anna-Sofia Maurin, 2023-12-22 Philosophical questions regarding both the existence and nature of properties are ubiquitous in ordinary life, the sciences and philosophical theorising. In philosophy it is one of the oldest topics discussed in various intellectual traditions East and West reaching back to Plato and Aristotle. Today in the analytic tradition properties continue to be a core area of study and research. The Routledge Handbook of Properties is an outstanding reference source to this perennial topic and is the first major volume of its kind. It contains forty specially commissioned chapters written by an international team of expert contributors and is divided into nine clear parts: Methodology and Metaontology; Distinctions; Realism about Universals; Nominalism; Trope Theory; Properties in Causation; Time and Modality; Properties in Science; Properties in Language and Mind; Properties in the Normative Realm; the Social World and Aesthetics. The Routledge Handbook of Properties is essential reading for anyone studying and researching metaphysics, metametaphysics and ontology and will also be of interest to those in closely related areas such as philosophy of science, philosophy of language, philosophy of mind, ethics and aesthetics.

Hard Truths Elijah Millgram, 2009-03-30 Hard Truths is a groundbreaking new work in which noted philosopher Elijah Millgram advances a new approach to truth and its role in our day to day reasoning. Takes up the hard truths of real reasoning and draws out their implications for logic and metaphysics. Introduces and takes issue with prevailing views of the purpose of truth and the way we reason including deflationism about truth, possible worlds treatments of modality and anti-psychologism in philosophy of logic. Develops philosophically ambitious ideas in a style accessible to non-specialists. Will make us rethink the place of metaphysics in our daily lives.

Constructive Empiricism P. Dicken, 2010-07-16 Constructive empiricism is not just a view regarding the aim of science; it is also a view regarding the epistemological framework in which one should debate the aim of science. This is the focus of this book, not with scientific truth but with how

one should argue about scientific truth

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