18

UNCONVENTIONAL ESSAYS ON THE NATURE OF MATHEMATICS

Reuben Hersh

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18 Unconventional Essays On The Nature Of Mathematics

Lorenzo Magnani

18 Unconventional Essays On The Nature Of Mathematics:

18 Unconventional Essays on the Nature of Mathematics Reuben Hersh,2006-01-16 This book comes from the Internet Browsing the Web I stumbled on philosophers cognitive scientists sociologists computer scientists even mathematicians saying original provocative things about mathematics And many of these people had probably never heard of each other So I have collected them here This way they can read each other s work I also bring back a few provocative oldies that deserve publicity The authors are philosophers mathematicians a cognitive scientist an anthropologist a computer scientist and a couple of sociologists Among the mathematicians are two Fields Prize winners and two Steele Prize w ners None are historians I regret to say but there are two historically o ented articles These essays don t share any common program or ideology The standard for admission was Nothing boring Nothing trite nothing tr ial Every essay is challenging thought provoking and original Back in the 1970s when I started writing about mathematics instead of just doing mathematics I had to complain about the literature Philosophy of science was already well into its modern revival largely stimulated by the book of Thomas Kuhn But philosophy of mathematics still seemed to be mostly foundationist ping pong in the ancient style of Rudolf Carnap or Willard Van Ormond Quine The great exception was Proofs and Refutations by Imre Lakatos But that exciting book was still virtually unknown and unread by either mathematicians or philosophers I wrote an article en tled Introducing Imre Lakatos in the Mathematical Intelligencer in 1978   18 Unconventional Essays on the Nature of Mathematics Reuben Hersh,2006 This book collects some of the most interesting recent writings that are tackling from various points of view the problem of giving an accounting of the nature purpose and justification of real mathematical practice mathematics as actually done by real live mathematicians What is the nature of the objects being studied What determines the directions and styles in which mathematics progresses or perhaps degenerates What certifies its claim to certainty or to a priori status to independence of experience Why is mathematics the same for all times and places or is it really the same or in what senses is it the same and in what senses different Many of these writings were read at conferences in Europe and America under the heading of history or cultural studies as well as philosophy It is the editor s hope to help foster healthy interdisciplinary mutual aid in this young and fertile area I was pleasantly surprised to find that this book does not treat mathematics as dessicated formal logic but as a living organism immediately recognizable to any working mathematician Sir Michael Atiyah University of Edinburgh A wonderful collection of essays on the philosophy of mathematics some by mathematicians others by philosophers and all having significant things to say Most readers will be informed some will be infuriated but all will be stimulated John H Conway John von Neumann Distinguished Professor of Mathematics Princeton University   Multilingualism in Mathematics Classrooms Richard Barwell,2009-09-15 Mathematics classrooms are increasingly multilingual whether they are found in linguistically diverse societies urban melting pots or planned bilingual programs The chapters in this book present and discuss examples of mathematics classroom life from a range of

multilingual classroom settings and use these examples to draw out and discuss key issues for the teaching and learning of mathematics and language These issues relate to pedagogy students learning curriculum assessment policy and aspects of educational theory The contributions are based on research conducted in mathematics classrooms in Europe South Asia North America and Australia Recurring issues for the learning of mathematics include the relationship between language and mathematics the relationship between formal and informal mathematical language and the relationship between students home languages and the official language of schooling   *Theories of Mathematics Education* Bharath Sriraman,Lyn English,2009-10-13 Advances in Mathematics Education is a new and innovative book series published by Springer that builds on the success and the rich history of ZDM The Inter tional Journal on Mathematics Education formerly known as Zentralblatt f r daktik der Mathematik One characteristic of ZDM since its inception in 1969 has been the publication of themed issues that aim to bring the state of the art on c tral sub domains within mathematics education The published issues include a rich variety of topics and contributions that continue to be of relevance today The newly established monograph series aims to integrate synthesize and extend papers from previously published themed issues of importance today by orienting these issues towards the future state of the art The main idea is to move the eld forward with a book series that looks to the future by building on the past by carefully choosing viable ideas that can fruitfully mutate and inspire the next generations Taking ins ration from Henri Poincar 1854 1912 who said To create consists precisely in not making useless combinations and in making those which are useful and which are only a small minority   *Proof and Other Dilemmas* Bonnie Gold,Roger A. Simons,2008 During the first 75 years of the twentieth century almost all work in the philosophy of mathematics concerned foundational questions In the last quarter of the century philosophers of mathematics began to return to basic questions concerning the philosophy of mathematics such as what is the nature of mathematical knowledge and of mathematical objects and how is mathematics related to science Two new schools of philosophy of mathematics social constructivism and structuralism were added to the four traditional views formalism intuitionalism logicism and platonism The advent of the computer led to proofs and the development of mathematics assisted by computer and to questions of the role of the computer in mathematics This book of 16 essays all written specifically for this volume is the first to explore this range of new developments in a language accessible to mathematicians Approximately half the essays were written by mathematicians and consider questions that philosophers are not yet discussing The other half written by philsophers of mathematics summarize the discussion in that community during the last 35 years In each case a connection is made to issues relevant to the teach of mathematics   Culturally Responsive Mathematics Education Brian Greer,Swapna Mukhopadhyay,Arthur B. Powell,Sharon Nelson-Barber,2009-05-20 At a time of rapid demographic change and amidst the many educational challenges facing the US this critical new collection presents mathematics education from a culturally responsive perspective It tackles the most crucial issues of teaching mathematics to an ethnically diverse school population

including the political dimension of mathematics education within the context of governmental efforts to improve achievement in school mathematics Culturally Responsive Mathematics Education moves beyond a point of view that is internal to mathematics education as a discipline and instead offers a broad perspective of mathematics as a significant liberating intellectual force in our society The editors of this volume bring together contributions from many of the leading teachers teacher educators researchers scholars and activists who have been working to reorient mathematics education in ways that reflect mathematics education as accomplished first and foremost through human interactions **Handbook of Abductive Cognition** Lorenzo Magnani,2023-03-31 This Handbook offers the first comprehensive reference guide to the interdisciplinary field of abductive cognition providing readers with extensive information on the process of reasoning to hypotheses in humans animals and in computational machines It highlights the role of abduction in both theory practice in generating and testing hypotheses and explanatory functions for various purposes and as an educational device It merges logical cognitive epistemological and philosophical perspectives with more practical needs relating to the application of abduction across various disciplines and practices such as in diagnosis creative reasoning scientific discovery diagrammatic and ignorance based cognition and adversarial strategies It also discusses the inferential role of models in hypothetical reasoning abduction and creativity including the process of development implementation and manipulation for different scientific and technological purposes Written by a group of internationally renowned experts in philosophy logic general epistemology mathematics cognitive and computer science as well as life sciences engineering architecture and economics the Handbook of Abductive Cognition offers a unique reference guide for readers approaching the process of reasoning to hypotheses from different perspectives and for various theoretical and practical purposes Numerous diagrams schemes and other visual representations are included to promote a better understanding of the relevant concepts and to make concepts highly accessible to an audience of scholars and students with different scientific backgrounds **Cultures of Mathematics and Logic** Shier Ju,Benedikt Löwe,Thomas Müller,Yun Xie,2016-08-10 This book gathers the proceedings of the conference Cultures of Mathematics and Logic held in Guangzhou China The event was the third in a series of interdisciplinary international conferences emphasizing the cultural components of philosophy of mathematics and logic It brought together researchers from many disciplines whose work sheds new light on the diversity of mathematical and logical cultures and practices In this context the cultural diversity can be diachronical different cultures in different historical periods geographical different cultures in different regions or sociological in nature *Rethinking Knowledge* Carlo Cellucci,2017-03-29 This monograph addresses the question of the increasing irrelevance of philosophy which has seen scientists as well as philosophers concluding that philosophy is dead and has dissolved into the sciences It seeks to answer the question of whether or not philosophy can still be fruitful and what kind of philosophy can be such The author argues that from its very beginning philosophy has focused on knowledge and methods for acquiring knowledge This view however has

generally been abandoned in the last century with the belief that unlike the sciences philosophy makes no observations or experiments and requires only thought Thus in order for philosophy to once again be relevant it needs to return to its roots and focus on knowledge as well as methods for acquiring knowledge Accordingly this book deals with several questions about knowledge that are essential to this view of philosophy including mathematical knowledge Coverage examines such issues as the nature of knowledge plausibility and common sense knowledge as problem solving modeling scientific knowledge mathematical objects definitions diagrams mathematics and reality and more This monograph presents a new approach to philosophy epistemology and the philosophy of mathematics It will appeal to graduate students and researchers with interests in the role of knowledge the analytic method models of science and mathematics and reality   Mathematics and the Body Elizabeth de Freitas,Nathalie Sinclair,2014-06-02 This book explores alternative ways to consider the relationship between mathematics and the material world Drawing on the philosophy of Gilles Ch telet and the post humanist materialism of Karen Barad the authors present an inclusive materialist approach to studying mathematics education This approach offers a fresh perspective on human and nonhuman bodies challenging current assumptions about the role of the senses language and ability in teaching and learning mathematics Each chapter provides empirical examples from the classroom that demonstrate how inclusive materialism can be applied to a wide range of concerns in the field The authors analyze recent studies on students gestures expressions and drawings in order to establish a link between mathematical activity and mathematical concepts Mathematics and the Body expands the landscape of research in mathematics education and will be an essential resource for teachers students and researchers alike   **Handbook of the History and Philosophy of Mathematical Practice** Bharath Sriraman,2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute ofTechnology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University

of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction ofproof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques

The Didactics of Mathematics: Approaches and Issues Bernard R Hodgson,Alain Kuzniak,Jean-Baptiste Lagrange,2016-07-10 This book the outcome of a conference organised in 2012 in Paris as a homage to Mich le Artigue is based on the main component of this event However it offers more than a mere reflection of the conference in itself as various well known researchers from the field have been invited to summarize the main topics where the importance of Artigue s contribution is unquestionable Her multiple interest areas as a researcher involved in a wider community give to this volume its unique flavour of diversity Mich le Artigue ICMI 2013 Felix Klein Award CIAEM 2015 Luis Santal Award is without doubt one of the most influential researchers nowadays in the field of didactics of mathematics This influence rests both on the quality of her research and on her constant contribution since the early 1970s to the development of the teaching and learning of mathematics Observing her exemplary professional history one can witness the emergence the development and the main issues of didactics of mathematics as a specific research field   *Models and Inferences in Science* Emiliano Ippoliti,Fabio Sterpetti,Tom Nickles,2016-01-27 The book answers long standing questions on scientific modeling and inference across multiple perspectives and disciplines including logic mathematics physics and medicine The different chapters cover a variety of issues such as the role models play in scientific practice the way science shapes our concept of

models ways of modeling the pursuit of scientific knowledge the relationship between our concept of models and our concept of science The book also discusses models and scientific explanations models in the semantic view of theories the applicability of mathematical models to the real world and their effectiveness the links between models and inferences and models as a means for acquiring new knowledge It analyzes different examples of models in physics biology mathematics and engineering Written for researchers and graduate students it provides a cross disciplinary reference guide to the notion and the use of models and inferences in science **Emerging Perspectives on Gesture and Embodiment in Mathematics** Laurie D. Edwards,Deborah Moore-Russo,Francesca Ferrara,2014-07-01 The purpose of the book is to establish a common language for and understanding of embodiment as it applies to mathematical thinking and to link mathematics education research to recent work in gesture studies cognitive linguistics and the theory of embodied cognition Just as in past decades mathematics education experienced a turn to the social in which socio cultural factors were explored in recent years there has been a nascent turn to the body An increasing number of researchers and theorists in mathematics education have become interested in the fact that although mathematics may be socially constructed this construction is not arbitrary or unconstrained but rather is rooted in and shaped by the body All those who engage with mathematics whether at an elementary or advanced level share the same basic biological and cognitive capabilities as well as certain common physical experiences that come with being humans living in a material world In addition the doing and communicating of mathematics is never a purely intellectual activity it involves a wide range of bodily actions from committing inscriptions to paper or whiteboard to speaking listening gesturing and gazing This volume will present recent research on gesture and mathematics within a framework that addresses several levels of mathematical development The chapters will begin with contributions that examine early mathematical and proto mathematical knowledge for example the conservation of volume and counting The role of gesture in teaching and learning arithmetic procedures will be addressed Core concepts and tools from secondary level mathematics will be investigated including algebra functions and graphing And finally research into the embodied understanding of advanced topics in geometry and calculus will be presented The overall goal for the volume is to acknowledge the multimodal nature of mathematical knowing and to contribute to the creation of a model of the interactions and mutual influences of bodily motion spatial thinking gesture speech and external inscriptions on mathematical thinking communication and learning The intended audience is researchers and theorists in mathematics education as well as graduate students in the field **Experiencing Mathematics** Reuben Hersh,2013-12-24 Part IV About the author An amusing elementary example Annotated research bibliography Curriculum vitae List of articles Index Back Cover **Philosophy of Mathematics** Gerhard Preyer,Georg Peter,2013-05-02 One main interest of philosophy is to become clear about the assumptions premisses and inconsistencies of our thoughts and theories And even for a formal language like mathematics it is controversial if consistency is acheivable or necessary like the articles in the firt part of the publication show Also the role

of formal derivations the role of the concept of apriority and the intuitions of mathematical principles and properties need to be discussed The second part is a contribution on nominalistic and platonistic views in mathematics like the indispensability argument of W v O Quine H Putnam and the makes no difference argument of A Baker Not only in retrospect the third part shows the problems of Mill Frege s and the unity of mathematics and Descartes s contradictional conception of mathematical essences Together these articles give us a hint into the relationship between mathematics and world that is one of the central problems in philosophy of mathematics and philosophy of science   *Secondary Mathematics for Mathematicians and Educators* Michael Weiss,2020-10-05 In this engaging text Michael Weiss offers an advanced view of the secondary mathematics curriculum through the prism of theory analysis and history aiming to take an intellectually and mathematically mature perspective on the content normally taught in high school mathematics courses Rather than a secondary mathematics textbook Weiss presents here a textbook about the secondary mathematics curriculum written for mathematics educators and mathematicians and presenting a long overdue modern day integration of the disparate topics and methods of secondary mathematics into a coherent mathematical theory Areas covered include Polynomials and polynomial functions Geometry graphs and symmetry Abstract algebra linear algebra and solving equations Exponential and logarithmic functions Complex numbers The historical development of the secondary mathematics curriculum Written using precise definitions and proofs throughout on a foundation of advanced content knowledge Weiss offers a compelling and timely investigation into the secondary mathematics curriculum relevant for preservice secondary teachers as well as graduate students and scholars in both mathematics and mathematics education   *The Philosophy of Mathematical Practice* Paolo Mancosu,2008-06-19 There is an urgent need in philosophy of mathematics for new approaches which pay closer attention to mathematical practice This book will blaze the trail it offers philosophical analyses of important characteristics of contemporary mathematics and of many aspects of mathematical activity which escape purely formal logical treatment   **Handbook of Cognitive Science** Paco Calvo,Antoni Gomila,2008-08-15 The Handbook of Cognitive Science provides an overview of recent developments in cognition research relying upon non classical approaches Cognition is explained as the continuous interplay between brain body and environment without relying on classical notions of computations and representation to explain cognition The handbook serves as a valuable companion for readers interested in foundational aspects of cognitive science and neuroscience and the philosophy of mind The handbook begins with an introduction to embodied cognitive science and then breaks up the chapters into separate sections on conceptual issues formal approaches embodiment in perception and action embodiment from an artificial perspective embodied meaning and emotion and consciousness Contributors to the book represent research overviews from around the globe including the US UK Spain Germany Switzerland France Sweden and the Netherlands   **Realizing Reason** Danielle Macbeth,2014-03-27 Realizing Reason pursues three interrelated themes First it traces the essential moments in the historical unfolding from the ancient Greeks through Descartes Kant and

developments in the nineteenth century to the present that culminates in the realization of pure reason as a power of knowing Second it provides a cogent account of mathematical practice as a mode of inquiry into objective truth And finally it develops and defends a new conception of our being in the world one that builds on and transforms the now standard conception according to which our experience of reality arises out of brain activity due in part to merely causal impacts on our sense organs Danielle Macbeth shows that to achieve an adequate understanding of the striving for truth in the exact sciences we must overcome this standard conception and that the way to do that is through a more adequate understanding of the nature of mathematical practice and the profound transformations it has undergone over the course of its history the history through which reason is first realized as a power of knowing Because we can understand mathematical practice only if we attend to the systems of written signs within which to do mathematics Macbeth provides an account of the nature and role of written notations specifically of the principal systems that have been developed within which to reason in mathematics Euclidean diagrams the symbolic language of arithmetic and algebra and Frege s concept script Begriffsschrift

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18 Unconventional Essays On The Nature Of Mathematics Introduction

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