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UNCONVENTIONAL ESSAYS ON THE NATURE OF MATHEMATICS

Reuben Hersh



18 Unconventional Essays On The Nature Of Mathematics

Paco Calvo, Antoni Gomila



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 winners None are historians I regret to say but there are two historically oriented articles These essays don't share any common program or ideology The standard for admission was Nothing boring Nothing trite nothing trivial 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 Ormon 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 entitled *Introducing Imre Lakatos in the Mathematical Intelligencer* in 1978 *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 intuitionism 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 philosophers 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 teaching of mathematics *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 International Journal on Mathematics Education formerly known as Zentralblatt für Didaktik 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 central 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 field 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 inspiration from Henri Poincaré 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

Multilingualism in Mathematics Classrooms Richard Barwell, 2009 Learning and teaching mathematics in multilingual bilingual or second language settings can be challenging This collection explores the complex issues that arise in multilingual mathematics classrooms in Europe South Asia North America and Australia Each contribution draws on recent research to offer new insights into the relationship between language learning and mathematics

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

The Making of Mathematics Carlo Cellucci, 2022-03-07 This book offers an alternative to current philosophy of mathematics heuristic philosophy of mathematics In accordance with the heuristic approach the philosophy of mathematics must concern itself with the making of mathematics and in particular with mathematical discovery In the past century mainstream philosophy of mathematics has claimed that the philosophy of mathematics cannot concern itself with the making of mathematics but only with finished mathematics namely mathematics as presented in published works On this basis mainstream philosophy of mathematics has maintained that mathematics is theorem proving by the axiomatic method This view has turned out to be untenable because of Gödel's incompleteness theorems which have shown that the view that mathematics is theorem proving by the axiomatic method does not account for a large number of basic features of mathematics By using the heuristic approach this book argues that mathematics is not theorem proving by the axiomatic method but is rather problem solving by the analytic method The author argues that this view can account for the main items of the mathematical process those being mathematical objects demonstrations definitions diagrams notations explanations applicability beauty and the role of mathematical knowledge

The Best Writing on Mathematics 2011 Mircea Pitici, 2012 The year's finest writing on mathematics from around the world This anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2011 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here Ian Hacking discusses the salient features that distinguish mathematics from other disciplines of the mind Doris

Schattschneider identifies some of the mathematical inspirations of M C Escher's art Jordan Ellenberg describes compressed sensing a mathematical field that is reshaping the way people use large sets of data Erica Klarreich reports on the use of algorithms in the job market for doctors and much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a foreword by esteemed physicist and mathematician Freeman Dyson This book belongs on the shelf of anyone interested in where math has taken us and where it is headed Mathematics and the

Body Elizabeth de Freitas, Nathalie Sinclair, 2014-06-02 This book expands the landscape of research in mathematics education by analyzing how the body influences mathematical thinking 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

Classroom Research on Mathematics and Language Núria Planas, Candia Morgan, Marcus Schütte, 2021-03-22 This book offers an international perspective on the current and future state of the research focusing in particular on the role and use of language in mathematics school teaching and learning It focuses on the development of a unified view of the languages of the learners of the teachers and of mathematics by considering the role of language in the learning teaching and doing of mathematics in the classroom and the current richness and plurality of language and culture The contributions in this volume combine to show how views of language and of language research in mathematics education have changed significantly in recent decades and how they will continue to change and become even more complex and challenging in the era of diversity All of these contributions by leading scholars are grouped into two sections for emphasis on issues of Theorising the complexity of language in mathematics teaching and learning Opening spaces of learning with mathematics classroom research on language This book will be of great interest to mathematics teachers teacher educators curriculum developers and mathematics education researchers who deal with the study and implementation of pedagogies of mathematics teaching and learning specifically in regions of the world which are culturally and sociolinguistically diverse **The Argument of Mathematics** Andrew Aberdein, Ian J Dove, 2013-07-01 Written by experts in the field this volume presents a comprehensive investigation into the relationship between argumentation theory and the philosophy of mathematical practice

Argumentation theory studies reasoning and argument and especially those aspects not addressed or not addressed well by formal deduction The philosophy of mathematical practice diverges from mainstream philosophy of mathematics in the emphasis it places on what the majority of working mathematicians actually do rather than on mathematical foundations The book begins by first challenging the assumption that there is no role for informal logic in mathematics Next it details the usefulness of argumentation theory in the understanding of mathematical practice offering an impressively diverse set of examples covering the history of mathematics mathematics education and perhaps surprisingly formal proof verification From there the book demonstrates that mathematics also offers a valuable testbed for argumentation theory Coverage concludes by defending attention to mathematical argumentation as the basis for new perspectives on the philosophy of mathematics

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

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

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

A Brief History of Mathematical Thought Luke Heaton, 2017 A compelling and readable book that situates mathematics in human experience and history

Loving and Hating Mathematics Reuben Hersh, Vera John-Steiner, 2010-12-13 An exploration of the hidden human emotional and social dimensions of mathematics Mathematics is often thought of as the coldest expression of pure reason But few subjects provoke hotter emotions and inspire more love and hatred than mathematics And although math is frequently idealized as floating above the messiness of human life its story is nothing if not human often it is all too human *Loving and Hating Mathematics* is about the hidden human emotional and social forces that shape mathematics and affect the experiences of students and mathematicians Written in a lively accessible style and filled with gripping stories and anecdotes *Loving and Hating Mathematics* brings home the intense pleasures and pains of mathematical life These stories challenge many myths including the notions that mathematics is a solitary pursuit and a young man s game the belief that mathematicians are emotionally different from other people and even the idea that to be a great mathematician it helps to be a little bit crazy Reuben Hersh and Vera John Steiner tell stories of lives in math from their very beginnings through old age including accounts of teaching and mentoring friendships and rivalries love affairs and marriages and the experiences of women and minorities in a field that has traditionally been unfriendly to both Included here are also stories of people for whom mathematics has been an immense solace during times of crisis war and even

imprisonment as well as of those rare individuals driven to insanity and even murder by an obsession with math This is a book for anyone who wants to understand why the most rational of human endeavors is at the same time one of the most emotional 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

Is God a Mathematician? Mario Livio,2011-02-22 Bestselling author and astrophysicist Mario Livio examines the lives and theories of history s greatest mathematicians to ask how if mathematics is an abstract construction of the human mind it can so perfectly explain the physical world Nobel Laureate Eugene Wigner once wondered about the unreasonable effectiveness of mathematics in the formulation of the laws of nature Is God a Mathematician investigates why mathematics is as powerful as it is From ancient times to the present scientists and philosophers have marveled at how such a seemingly abstract discipline could so perfectly explain the natural world More than that mathematics has often made predictions for example about subatomic particles or cosmic phenomena that were unknown at the time but later were proven to be true Is mathematics ultimately invented or discovered If as Einstein insisted mathematics is a product of human thought that is independent of experience how can it so accurately describe and even predict the world around us Physicist and author Mario Livio brilliantly explores mathematical ideas from Pythagoras to the present day as he shows us how intriguing questions and ingenious answers have led to ever deeper insights into our world This fascinating book will interest anyone curious about the human mind the scientific world and the relationship between them A Philosophy for the Future Carlo Cellucci,2025-09-26 This book offers an alternative to the present prevailing approach to philosophy For there have never been so many professional philosophers as there are today yet philosophy has never been so irrelevant This is because according to today s dominant philosophy namely analytic philosophy philosophy does not advance knowledge but only aims to understand what we already know As a result philosophy deals with artifactual puzzles of no abiding significance This contrasts with the fact that at some stages of its historical development philosophy has played a significant role in the

advancement of knowledge To overcome the present impasse of philosophy this book proposes a view of philosophy as acquisition of knowledge according to which philosophy can open new ways to knowledge and lead to the birth of new sciences

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

The Enigmatic Realm of **18 Unconventional Essays On The Nature Of Mathematics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **18 Unconventional Essays On The Nature Of Mathematics** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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18 Unconventional Essays On The Nature Of Mathematics Introduction

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