

RICHARD L. TIESZEN

MATHEMATICAL INTUITION

*Phenomenology and
Mathematical Knowledge*



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the language of science

Mathematical Intuition

Alexander George



Mathematical Intuition:

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Thinking About Equations Matt A. Bernstein, William A. Friedman, 2011-09-20 An accessible guide to developing intuition and skills for solving mathematical problems in the physical sciences and engineering. Equations play a central role in problem solving across various fields of study. Understanding what an equation means is an essential step toward forming an effective strategy to solve it and it also lays the foundation for a more successful and fulfilling work experience. *Thinking About Equations* provides an accessible guide to developing an intuitive understanding of mathematical methods and at the same time presents a number of practical mathematical tools for successfully solving problems that arise.

in engineering and the physical sciences Equations form the basis for nearly all numerical solutions and the authors illustrate how a firm understanding of problem solving can lead to improved strategies for computational approaches Eight succinct chapters provide thorough topical coverage including Approximation and estimation Isolating important variables Generalization and special cases Dimensional analysis and scaling Pictorial methods and graphical solutions Symmetry to simplify equations Each chapter contains a general discussion that is integrated with worked out problems from various fields of study including physics engineering applied mathematics and physical chemistry These examples illustrate the mathematical concepts and techniques that are frequently encountered when solving problems To accelerate learning the worked example problems are grouped by the equation related concepts that they illustrate as opposed to subfields within science and mathematics as in conventional treatments In addition each problem is accompanied by a comprehensive solution explanation and commentary and numerous exercises at the end of each chapter provide an opportunity to test comprehension Requiring only a working knowledge of basic calculus and introductory physics Thinking About Equations is an excellent supplement for courses in engineering and the physical sciences at the upper undergraduate and graduate levels It is also a valuable reference for researchers practitioners and educators in all branches of engineering physics chemistry biophysics and other related fields who encounter mathematical problems in their day to day work **Rational Intuition**

Lisa M. Osbeck, Barbara S. Held, 2014-08-25 Rational Intuition explores the concept of intuition as it relates to rationality through mediums of history philosophy cognitive science and psychology **The Nature of Mathematical Knowledge**

Philip Kitcher, 1984 This book argues against the view that mathematical knowledge is a priori contending that mathematics is an empirical science and develops historically just as natural sciences do Kitcher presents a complete systematic and richly detailed account of the nature of mathematical knowledge and its historical development focusing on such neglected issues as how and why mathematical language changes why certain questions assume overriding importance and how standards of proof are modified **Math in Motion: Dynamic Techniques for a Changing World** Pasquale De Marco, 2025-08-12 In a

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Quantum Field Theory Abhishek Kumar, 2025-04-18 The relativistic quantum field theory of electrodynamics is quantum electrodynamics It describes the behavior of electrons and photons the fundamental particles of matter and light respectively in a unified way Quantum field theory itself combines classical field theory special relativity and quantum mechanics

The Mathematical Heritage of Henri Poincare Felix E. Browder, 1983-12-31 On April 7 10 1980 the American Mathematical Society sponsored a Symposium on the Mathematical Heritage of Henri Poincaré held at Indiana University Bloomington Indiana This volume presents the written versions of all but three of the invited talks presented at this Symposium those by W Browder A Jaffe and J Mather were not written up for publication In addition it contains two papers by invited speakers who were not able to attend S S Chern and L Nirenberg If one traces the influence of Poincaré through the major mathematical figures of the early and midtwentieth century it is through American mathematicians as well as French that this influence flows through G D Birkhoff Solomon Lefschetz and Marston Morse This continuing tradition represents one of the major strands of American as well as world mathematics and it is as a testimony to this tradition as an opening to the future creativity of mathematics that this volume is dedicated This part contains sections on topological methods in nonlinear problems mechanics and dynamical systems ergodic theory and recurrence and historical material

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

Naturalizing Logico-Mathematical Knowledge Sorin Bangu, 2018-02-01 This book is meant as a part of the larger contemporary philosophical project of naturalizing logico mathematical knowledge and addresses the key question that motivates most of the work in this field What is philosophically relevant about the nature of logico mathematical knowledge in recent research in psychology and cognitive science The question about this distinctive kind of knowledge is rooted in Plato's dialogues and virtually all major philosophers have expressed interest in it The essays in this collection tackle this important philosophical query from the perspective of the modern sciences of cognition namely cognitive psychology and neuroscience Naturalizing

Logico Mathematical Knowledge contributes to consolidating a new emerging direction in the philosophy of mathematics which while keeping the traditional concerns of this sub discipline in sight aims to engage with them in a scientifically informed manner A subsequent aim is to signal the philosophers willingness to enter into a fruitful dialogue with the community of cognitive scientists and psychologists by examining their methods and interpretive strategies

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

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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

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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 études Scientifiques

Disciplinary Intuitions and the Design of Learning Environments Kenneth Y. T. Lim, 2014-10-19 As children we would have spilt glasses of milk dropped things and broken things As children therefore we would have developed intuitions about how the world works but we would not necessarily have been able to explain these workings It would only have been till we entered formal schooling that we would have learned codifications of canon within each respective discipline and consequently how to articulate the canon to explain the intuition The preceding example was from the natural sciences but one could just have easily taken an example from say the environmental sciences or from the social sciences Indeed much of this book does just that as it seeks to chart the territory of a new theory of learning around Disciplinary Intuitions Many of the chapters within draw frequent and explicit linkages to curriculum design from the premise of the need to go beyond addressing the conceptions of learners to seeking to understand the substrate upon which these conceptions are founded The argument is made that this substrate comprises the particular set of lived experiences of each learner and how because these lived experiences are as tacit as they are diverse designing curriculum around misconceptions and preconceptions alone would not lead to enduring understanding from first principles From this perspective Disciplinary Intuitions constitute an exciting field at the nexus of learning theories and curriculum design

Intuition and the Axiomatic Method Emily Carson, Renate Huber, 2006-07-02 Following developments in modern geometry logic and physics many scientists and philosophers in the modern era considered Kant's theory of intuition to be obsolete But this only represents one side of the story concerning Kant intuition and twentieth century science Several prominent mathematicians and physicists were convinced that the formal tools of modern logic set theory and the axiomatic method are not sufficient for providing mathematics and physics with satisfactory foundations All of Hilbert G del Poincar Weyl and Bohr thought that intuition was an indispensable element in describing the foundations of science They had very different reasons for thinking this and they had very different accounts of what they called intuition But they had in common that their views of mathematics and physics were significantly influenced by their readings of Kant In the present volume various views of intuition and the axiomatic method are explored beginning with Kant's own approach By way of these investigations we hope to understand better the rationale behind Kant's theory of intuition as well as to grasp many facets of the relations between theories of intuition and the axiomatic method dealing with both their strengths and limitations in short the volume covers logical and non logical historical and systematic issues in both mathematics and physics

Cognition, Content, and the A Priori Robert Hanna, 2015-10-08 In Cognition Content and the A Priori Robert Hanna works out a unified contemporary Kantian theory of

rational human cognition and knowledge Along the way he provides accounts of i intentionality and its contents including non conceptual content and conceptual content ii sense perception and perceptual knowledge including perceptual self knowledge iii the analytic synthetic distinction iv the nature of logic and v a priori truth and knowledge in mathematics logic and philosophy This book is specifically intended to reach out to two very different audiences contemporary analytic philosophers of mind and knowledge on the one hand and contemporary Kantian philosophers or Kant scholars on the other At the same time it is also riding the crest of a wave of exciting and even revolutionary emerging new trends and new work in the philosophy of mind and epistemology with a special concentration on the philosophy of perception What is revolutionary in this new wave are its strong emphases on action on cognitive phenomenology on disjunctivist direct realism on embodiment and on sense perception as a primitive and proto rational capacity for cognizing the world Cognition Content and the A Priori makes a fundamental contribution to this philosophical revolution by giving it a specifically contemporary Kantian twist and by pushing these new lines of investigation radically further

Autonomy Platonism and the Indispensability Argument Russell Marcus, 2015-06-11 Mathematical platonism is the view that mathematical statements are true of real mathematical objects like numbers shapes and sets One central problem with platonism is that numbers shapes sets and the like are not perceivable by our senses In contemporary philosophy the most common defense of platonism uses what is known as the indispensability argument According to the indispensabilist we can know about mathematics because mathematics is essential to science Platonism is among the most persistent philosophical views Our mathematical beliefs are among our most entrenched They have survived the demise of millennia of failed scientific theories Once established mathematical theories are rarely rejected and never for reasons of their inapplicability to empirical science Autonomy Platonism and the Indispensability Argument is a defense of an alternative to indispensability platonism The autonomy platonist believes that mathematics is independent of empirical science there is purely mathematical evidence for purely mathematical theories which are even more compelling to believe than empirical science Russell Marcus begins by contrasting autonomy platonism and indispensability platonism He then argues against a variety of indispensability arguments in the first half of the book In the latter half he defends a new approach to a traditional platonistic view one which includes appeals to a priori but fallible methods of belief acquisition including mathematical intuition and a natural adoption of ordinary mathematical methods In the end Marcus defends his intuition based autonomy platonism against charges that the autonomy of mathematics is viciously circular This book will be useful to researchers graduate students and advanced undergraduates with interests in the philosophy of mathematics or in the connection between science and mathematics

Mathematics Douglas M. Campbell, John C. Higgins, 1984 Based upon the principle that graph design should be a science this book presents the principles of graph construction The orientation of the material is toward graphs in technical writings such as journal articles and technical reports But much of the material is relevant for graphs shown in talks and for

graphs in nontechnical publications from back cover Phenomenology and Mathematics Michael Roubach, 2023-12-06 This Element explores the relationship between phenomenology and mathematics Its focus is the mathematical thought of Edmund Husserl founder of phenomenology but other phenomenologists and phenomenologically oriented mathematicians including Weyl Becker G del and Rota are also discussed After outlining the basic notions of Husserl s phenomenology the author traces Husserl s journey from his early mathematical studies Phenomenology s core concepts such as intention and intuition each contributed to the emergence of a phenomenological approach to mathematics This Element examines the phenomenological conceptions of natural number the continuum geometry formal systems and the applicability of mathematics It also situates the phenomenological approach in relation to other schools in the philosophy of mathematics logicism formalism intuitionism Platonism the French epistemological school and the philosophy of mathematical practice

Philosophy of Mathematics Øystein Linnebo, 2020-03-24 A sophisticated original introduction to the philosophy of mathematics from one of its leading thinkers Mathematics is a model of precision and objectivity but it appears distinct from the empirical sciences because it seems to deliver nonexperiential knowledge of a nonphysical reality of numbers sets and functions How can these two aspects of mathematics be reconciled This concise book provides a systematic accessible introduction to the field that is trying to answer that question the philosophy of mathematics ystein Linnebo one of the world s leading scholars on the subject introduces all of the classical approaches to the field as well as more specialized issues including mathematical intuition potential infinity and the search for new mathematical axioms Sophisticated but clear and approachable this is an essential book for all students and teachers of philosophy and of mathematics **Mathematics and Mind** Alexander George, 1994 Those inquiring into the nature of mind have long been interested in the foundations of mathematics and conversely this branch of knowledge is distinctive in that our access to it is purely through thought A better understanding of mathematical thought should clarify the conceptual foundations of mathematics and a deeper grasp of the latter should in turn illuminate the powers of mind through which mathematics is made available to us The link between conceptions of mind and of mathematics has been a central theme running through the great competing philosophies of mathematics of the twentieth century though each has refashioned the connection and its import in distinctive ways The present collection will be of interest to students of both mathematics and of mind Contents include Introduction by Alexander George What is Mathematics About by Michael Dummett The Advantages of Honest Toil over Theft by George Boolos The Law of Excluded Middle and the Axiom of Choice by W W Tait Mechanical Procedures and Mathematical Experience by Wilfried Sieg Mathematical Intuition and Objectivity by Daniel Isaacson Intuition and Number by Charles Parsons and Hilbert s Axiomatic Method and the Laws of Thought by Michael Hallett *The Justificatory Force of Experiences* Philipp Berghofer, 2022-03-24 This book offers a phenomenological conception of experiential justification that seeks to clarify why certain experiences are a source of immediate justification and what role experiences play in gaining scientific knowledge

Based on the author's account of experiential justification this book exemplifies how a phenomenological experience first epistemology can epistemically ground the individual sciences. More precisely it delivers a comprehensive picture of how we get from epistemology to the foundations of mathematics and physics. The book is unique as it utilizes methods and insights from the phenomenological tradition in order to make progress in current analytic epistemology. It serves as a starting point for re-evaluating the relevance of Husserlian phenomenology to current analytic epistemology and making an important step towards paving the way for future mutually beneficial discussions. This is achieved by exemplifying how current debates can benefit from ideas, insights, and methods we find in the phenomenological tradition.

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