Foundations of Logic
and
Mathematics

By
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Foundations Of Logic And Mathematics Foundations Of Logic And Mathematics

A.A. Fraenkel,Y. Bar-Hillel,A. Levy

Foundations Of Logic And Mathematics Foundations Of Logic And Mathematics:

    Foundations of Logic and Mathematics Yves Nievergelt,2002   *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   **Foundations of Logic and Mathematics** Yves Nievergelt,2012-12-06 This modem introduction to the foundations of logic mathematics and computer science answers frequent questions that mysteriously remain mostly unanswered in other texts Why is the truth table for the logical implication so unintuitive Why are there no recipes to design proofs Where do these numerous mathematical rules come from What are the applications of formal logic and abstract mathematics What issues in logic mathematics and computer science still remain unresolved Answers to such questions must necessarily present both theory and significant applica tions which explains the length of the book The text first shows how real life provides some guidance for the selection of axioms for the basis of a logical system for instance Boolean classical intuitionistic or minimalistic logic From such axioms the text then derives de tailed explanations of the elements of modem logic and mathematics set theory arithmetic number theory combinatorics probability and graph theory with applications to computer science The motivation for such detail and for the organization of the material lies in a continuous thread from logic and mathematics to their uses in everyday life   Mathematical Logic and the Foundations of Mathematics G. T. Kneebone,1963   **Sets, Logic, and Mathematical Foundations** Stephen Cole Kleene,1956   **Towards an Arithmetical Logic** Yvon Gauthier,2015-09-12 This book offers an original contribution to the foundations of logic and mathematics and focuses on the internal logic of mathematical theories from arithmetic or number theory to algebraic geometry Arithmetical logic is the term used to refer to the internal logic of classical arithmetic here called Fermat Kronecker arithmetic and combines Fermat s method of infinite descent with Kronecker s general arithmetic of homogeneous polynomials The book also includes a treatment of theories in physics and mathematical physics to underscore the role of arithmetic from a constructivist viewpoint The scope of the work intertwines historical mathematical logical and philosophical dimensions in a unified critical perspective as such it will appeal to a broad readership from mathematicians to logicians to philosophers interested in foundational questions Researchers and graduate students in the fields of philosophy and mathematics will benefit from the author s critical approach to the foundations of logic and mathematics   **Feferman on Foundations** Gerhard Jäger,Wilfried Sieg,2018-04-04 This volume honours the life and work of Solomon Feferman one of

the most prominent mathematical logicians of the latter half of the 20th century In the collection of essays presented here researchers examine Feferman s work on mathematical as well as specific methodological and philosophical issues that tie into mathematics Feferman s work was largely based in mathematical logic namely model theory set theory proof theory and computability theory but also branched out into methodological and philosophical issues making it well known beyond the borders of the mathematics community With regard to methodological issues Feferman supported concrete projects On the one hand these projects calibrate the proof theoretic strength of subsystems of analysis and set theory and provide ways of overcoming the limitations imposed by G del s incompleteness theorems through appropriate conceptual expansions On the other they seek to identify novel axiomatic foundations for mathematical practice truth theories and category theory In his philosophical research Feferman explored questions such as What is logic and proposed particular positions regarding the foundations of mathematics including for example his conceptual structuralism The contributing authors of the volume examine all of the above issues Their papers are accompanied by an autobiography presented by Feferman that reflects on the evolution and intellectual contexts of his work The contributing authors critically examine Feferman s work and in part actively expand on his concrete mathematical projects The volume illuminates Feferman s distinctive work and in the process provides an enlightening perspective on the foundations of mathematics and logic **Essays on the Foundations of Mathematics and Logic** Giandomenico Sica,2005 **Foundations** ,1984 *Foundations of Set Theory* A.A. Fraenkel,Y. Bar-Hillel,A. Levy,1973-12-01 Foundations of Set Theory discusses the reconstruction undergone by set theory in the hands of Brouwer Russell and Zermelo Only in the axiomatic foundations however have there been such extensive almost revolutionary developments This book tries to avoid a detailed discussion of those topics which would have required heavy technical machinery while describing the major results obtained in their treatment if these results could be stated in relatively non technical terms This book comprises five chapters and begins with a discussion of the antinomies that led to the reconstruction of set theory as it was known before It then moves to the axiomatic foundations of set theory including a discussion of the basic notions of equality and extensionality and axioms of comprehension and infinity The next chapters discuss type theoretical approaches including the ideal calculus the theory of types and Quine s mathematical logic and new foundations intuitionistic conceptions of mathematics and its constructive character and metamathematical and semantical approaches such as the Hilbert program This book will be of interest to mathematicians logicians and statisticians *Mathematical Logic and the Foundations of Mathematics* G. T.. Kneebone,1926 **Logic, Mathematics, and Computer Science** Yves Nievergelt,2015-10-13 This text for the first or second year undergraduate in mathematics logic computer science or social sciences introduces the reader to logic proofs sets and number theory It also serves as an excellent independent study reference and resource for instructors Adapted from Foundations of Logic and Mathematics Applications to Science and Cryptography 2002 Birkh user this second edition provides a modern introduction to the

foundations of logic mathematics and computers science developing the theory that demonstrates construction of all mathematics and theoretical computer science from logic and set theory The focuses is on foundations with specific statements of all the associated axioms and rules of logic and set theory and provides complete details and derivations of formal proofs Copious references to literature that document historical development is also provided Answers are found to many questions that usually remain unanswered Why is the truth table for logical implication so unintuitive Why are there no recipes to design proofs Where do these numerous mathematical rules come from What issues in logic mathematics and computer science still remain unresolved And the perennial question In what ways are we going to use this material Additionally the selection of topics presented reflects many major accomplishments from the twentieth century and includes applications in game theory and Nash s equilibrium Gale and Shapley s match making algorithms Arrow s Impossibility Theorem in voting to name a few From the reviews of the first edition All the results are proved in full detail from first principles remarkably the arithmetic laws on the rational numbers are proved step after step starting from the very definitions This is a valuable reference text and a useful companion for anybody wondering how basic mathematical concepts can be rigorously developed within set theory MATHEMATICAL REVIEWS Rigorous and modern in its theoretical aspect attractive as a detective novel in its applied aspects this paper book deserves the attention of both beginners and advanced students in mathematics logic and computer sciences as well as in social sciences Zentralblatt MATH **Foundations: Logic, Language, and Mathematics** Hugues Leblanc,Elliott Mendelson,A. Orenstein,2013-04-17 The more traditional approaches to the history and philosophy of science and technology continue as well and probably will continue as long as there are skillful practitioners such as Carl Hempel Ernest Nagel and th ir students Finally there are still other approaches that address some of the technical problems arising when we try to provide an account of belief and of rational choice These include efforts to provide logical frameworks within which we can make sense of these notions This series will attempt to bring together work from all of these approaches to the history and philosophy of science and technology in the belief that each has something to add to our understanding The volumes of this series have emerged either from lectures given by authors while they served as honorary visiting professors at the City College of New York or from conferences sponsored by that institution The City College Program in the History and Philosophy of Science and Technology oversees and directs these lectures and conferences with the financial aid of the Association for Philosophy of Science Psychotheraphy and Ethics MARTIN TAMNY RAPHAEL STERN PREFACE The papers in this collection stem largely from the conference Foun dations Logic Language and Mathematics held at the Graduate Center of the City University of New York on 14 15 November 1980 **Foundations of Mathematical Logic** Haskell Brooks Curry,1977-01-01 Written by a pioneer of mathematical logic this comprehensive graduate level text explores the constructive theory of first order predicate calculus It covers formal methods including algorithms and epitheory and offers a brief treatment of Markov s approach to algorithms It also explains

elementary facts about lattices and similar algebraic systems 1963 edition **The Foundations of Mathematics** Kenneth Kunen,2009 Mathematical logic grew out of philosophical questions regarding the foundations of mathematics but logic has now outgrown its philosophical roots and has become an integral part of mathematics in general This book is designed for students who plan to specialize in logic as well as for those who are interested in the applications of logic to other areas of mathematics Used as a text it could form the basis of a beginning graduate level course There are three main chapters Set Theory Model Theory and Recursion Theory The Set Theory chapter describes the set theoretic foundations of all of mathematics based on the ZFC axioms It also covers technical results about the Axiom of Choice well orderings and the theory of uncountable cardinals The Model Theory chapter discusses predicate logic and formal proofs and covers the Completeness Compactness and Lowenheim Skolem Theorems elementary submodels model completeness and applications to algebra This chapter also continues the foundational issues begun in the set theory chapter Mathematics can now be viewed as formal proofs from ZFC Also model theory leads to models of set theory This includes a discussion of absoluteness and an analysis of models such as H and R The Recursion Theory chapter develops some basic facts about computable functions and uses them to prove a number of results of foundational importance in particular Church s theorem on the undecidability of logical consequence the incompleteness theorems of Godel and Tarski s theorem on the non definability of truth **Mathematical Logic and the Foundations of Mathematics** Geoffrey Thomas Kneebone,1953 *Kreisel's Interests* Hans-Peter Leeb,Paul Weingartner,2020-04-20 The contributions to this volume are from participants of the international conference Kreisel s Interests On the Foundations of Logic and Mathematics which took place from 13 to 14 August 2018 at the University of Salzburg in Salzburg Austria The contributions have been revised and partially extended Among the contributors are Akihiro Kanamori G ran Sundholm Ulrich Kohlenbach Charles Parsons Daniel Isaacson and Kenneth Derus The contributions cover the discussions between Kreisel and Wittgenstein on philosophy of mathematics Kreisel s Dictum proof theory the discussions between Kreisel and G del on philosophy of mathematics some biographical facts and a collection of extracts from Kreisel s letters *Introduction to the Foundations of Mathematics* Raymond L. Wilder,2013-09-26 Classic undergraduate text acquaints students with fundamental concepts and methods of mathematics Topics include axiomatic method set theory infinite sets groups intuitionism formal systems mathematical logic and much more 1965 second edition **Foundations of Logic and Theory of Computation** A. Sernadas,Cristina Sernadas,2008 The book provides a self contained introduction to mathematical logic and computability theory for students of mathematics or computer science It is organized around the failures and successes of Hilbert s programme for the formalization of Mathematics It is widely known that the programme failed with G del s incompleteness theorems and related negative results about arithmetic Unfortunately the positive outcomes of the programme are less well known even among mathematicians The book covers key successes like G del s proof of the completeness of first order logic Gentzen s proof of its consistency by

purely symbolic means and the decidability of a couple of useful theories The book also tries to convey the message that Hilbert s programme made a significant contribution to the advent of the computer as it is nowadays understood and thus to the latest industrial revolution Part I of the book addresses Hilbert s programme and computability Part II presents first order logic including G del s completeness theorem and Gentzen s consistency theorem Part III is focused on arithmetic representability of computable maps G del s incompleteness theorems and decidability of Presburger arithmetic Part IV provides detailed answers to selected exercises The book can be used at late undergraduate level or early graduate level An undergraduate course would concentrate on Parts I and II leaving out the Gentzen calculus and sketching the way to the 1st incompleteness theorem A more advanced course might skip early material already known to the students and concentrate on the positive and negative results of Hilbert s programme thus covering Gentzen s proof of consistency and Part III in full

   Logical Foundations of Mathematics and Computational Complexity Pavel Pudlák,2013-04-22 The two main themes of this book logic and complexity are both essential for understanding the main problems about the foundations of mathematics Logical Foundations of Mathematics and Computational Complexity covers a broad spectrum of results in logic and set theory that are relevant to the foundations as well as the results in computational complexity and the interdisciplinary area of proof complexity The author presents his ideas on how these areas are connected what are the most fundamental problems and how they should be approached In particular he argues that complexity is as important for foundations as are the more traditional concepts of computability and provability Emphasis is on explaining the essence of concepts and the ideas of proofs rather than presenting precise formal statements and full proofs Each section starts with concepts and results easily explained and gradually proceeds to more difficult ones The notes after each section present some formal definitions theorems and proofs Logical Foundations of Mathematics and Computational Complexity is aimed at graduate students of all fields of mathematics who are interested in logic complexity and foundations It will also be of interest for both physicists and philosophers who are curious to learn the basics of logic and complexity theory

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