

Mathematical Logic

REVISED EDITION

WILLARD VAN ORMAN QUINE

HARVARD UNIVERSITY PRESS

SCIENCE

Mathematical Logic

1975

Mathematical Logic Revised Edition

Nik Weaver



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Mathematical Logic Willard Van Orman Quine, 1981 W V Quine's systematic development of mathematical logic has been widely praised for the new material presented and for the clarity of its exposition This revised edition in which the minor inconsistencies observed since its first publication have been eliminated will be welcomed by all students and teachers in mathematics and philosophy who are seriously concerned with modern logic Max Black in *Mind* has said of this book It will serve the purpose of inculcating by precept and example standards of clarity and precision which are even in formal logic more often pursued than achieved *Mathematical Logic ... Revised Edition* Willard Van Orman Quine, 1951

ELEMENTARY LOGIC REV ED P W. V. QUINE, W. V. Quine, 2009-06-30 Now much revised since its first appearance in 1941 this book despite its brevity is notable for its scope and rigor It provides a single strand of simple techniques for the central business of modern logic Basic formal concepts are explained the paraphrasing of words into symbols is treated at some length and a testing procedure is given for truth function logic along with a complete proof procedure for the logic of quantifiers Fully one third of this revised edition is new and presents a nearly complete turnover in crucial techniques of testing and proving some change of notation and some updating of terminology The study is intended primarily as a convenient encapsulation of minimum essentials but concludes by giving brief glimpses of further matters *Mathematical Logic, Revised Edition* Willard QUINE, 2009-06-30 W V Quine's systematic development of mathematical logic has been widely praised for the new material presented and for the clarity of its exposition This revised edition in which the minor inconsistencies observed since its first publication have been eliminated will be welcomed by all students and teachers in mathematics and philosophy who are seriously concerned with modern logic Max Black in *Mind* has said of this book It will serve the purpose of inculcating by precept and example standards of clarity and precision which are even in formal logic more often pursued than achieved **Mathematical Logic. Rev. Ed** Willard Van Orman Quine, 1951 **Introduction to Mathematical Logic, Fourth Edition** Elliott Mendelson, 1997-06-01 The Fourth Edition of this long established text retains all the key features of the previous editions covering the basic topics of a solid first course in mathematical logic This edition includes an extensive appendix on second order logic a section on set theory with urlements and a section on the logic that results when we allow models with empty domains The text contains numerous exercises and an appendix furnishes answers to many of them Introduction to Mathematical Logic includes propositional logic first order logic first order number theory and the incompleteness and undecidability theorems of G del Rosser Church and Tarski axiomatic set theory theory of computability The study of mathematical logic axiomatic set theory and computability theory provides an understanding of the fundamental assumptions and proof techniques that form basis of mathematics Logic and computability theory have also become indispensable tools in theoretical computer science including artificial intelligence Introduction to Mathematical Logic covers these topics in a clear reader friendly style that will be valued by anyone working in computer science as well as

lecturers and researchers in mathematics philosophy and related fields Set Theory and Its Logic, Revised Edition Willard Van O QUINE, 2009-06-30 This is an extensively revised edition of Mr Quine's introduction to abstract set theory and to various axiomatic systematizations of the subject The treatment of ordinal numbers has been strengthened and much simplified especially in the theory of transfinite recursions by adding an axiom and reworking the proofs Infinite cardinals are treated anew in clearer and fuller terms than before Improvements have been made all through the book in various instances a proof has been shortened a theorem strengthened a space saving lemma inserted an obscurity clarified an error corrected a historical omission supplied or a new event noted Introduction to Mathematical Logic Elliott Mendelson, 2015-05-21 The new edition of this classic textbook Introduction to Mathematical Logic Sixth Edition explores the principal topics of mathematical logic It covers propositional logic first order logic first order number theory axiomatic set theory and the theory of computability The text also discusses the major results of Godel Church Kleene Rosse *Course of Mathematical Logic* R. Fraïssé, 2014-11-14 **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 epistheory and offers a brief treatment of Markov's approach to algorithms It also explains elementary facts about lattices and similar algebraic systems 1963 edition Introduction to Mathematical Logic Elliot Mendelsohn, 2012-12-06 This is a compact introduction to some of the principal topics of mathematical logic In the belief that beginners should be exposed to the most natural and easiest proofs I have used free swinging set theoretic methods The significance of a demand for constructive proofs can be evaluated only after a certain amount of experience with mathematical logic has been obtained If we are to be expelled from Cantor's paradise as nonconstructive set theory was called by Hilbert at least we should know what we are missing The major changes in this new edition are the following 1 In Chapter 5 Effective Computability Turing computability is now the central notion and diagrams flow charts are used to construct Turing machines There are also treatments of Markov algorithms Herbrand Godel computability register machines and random access machines Recursion theory is gone into a little more deeply including the s m n theorem the recursion theorem and Rice's Theorem 2 The proofs of the Incompleteness Theorems are now based upon the Diagonalization Lemma Lob's Theorem and its connection with Godel's Second Theorem are also studied 3 In Chapter 2 Quantification Theory Henkin's proof of the completeness theorem has been postponed until the reader has gained more experience in proof techniques The exposition of the proof itself has been improved by breaking it down into smaller pieces and using the notion of a scapegoat theory There is also an entirely new section on semantic trees **Routledge Library Editions: Logic** Various, 2021-09-30 Reissuing works originally published between 1931 and 1990 this set of twenty four books covers the full range of the philosophy of logic from introductions to logic to calculus and mathematical logic to logic in language and linguistics and logical reasoning in law and ethics An international array of authors are represented in this

comprehensive collection The Lvov-Warsaw School - the New Generation Jacek Juliusz Jadacki, Jacek Pańniczek, 2006 The influence of Kazimierz Twardowski on modern philosophy in Poland is all pervasive Twardowski instilled in his students a passion for clarity and seriousness He taught them to regard philosophy as a collaborative effort a matter of disciplined discussion and argument and he encouraged them to train themselves thoroughly in at least one extra philosophical discipline and to work together with scientists from other fields both inside Poland and internationally This led above all to collaborations with mathematicians so that the Lvov school of philosophy would gradually evolve into the Warsaw school of logic Twardowski taught his students too to respect and to pursue serious research in the history of philosophy an aspect of the tradition of philosophy on Polish territory which is illustrated in such disparate works as Jan Lukasiewicz's ground breaking monograph on the law of non contradiction in Aristotle and Wladyslaw Tatarkiewicz's highly influential multi volume histories of philosophy and aesthetics The term Polish philosophy is a misnomer for Polish philosophy is philosophy per se it is part and parcel of the mainstream of world philosophy simply because it meets international standards of training rigour professionalism and specialization Barry Smith from *Why Polish Philosophy does Not Exist* **Truth And Assertibility** Nik Weaver, 2015-04-22 The book is a research monograph on the notions of truth and assertibility as they relate to the foundations of mathematics It is aimed at a general mathematical and philosophical audience The central novelty is an axiomatic treatment of the concept of assertibility This provides us with a device that can be used to handle difficulties that have plagued philosophical logic for over a century Two examples relate to Frege's formulation of second order logic and Tarski's characterization of truth predicates for formal languages Both are widely recognized as fundamental advances but both are also seen as being seriously flawed Frege's system as Russell showed is inconsistent and Tarski's definition fails to capture the compositionality of truth A formal assertibility predicate can be used to repair both problems The repairs are technically interesting and conceptually compelling The approach in this book will be of interest not only for the uses the author has put it to but also as a flexible tool that may have many more applications in logic and the foundations of mathematics *The Collected Writings of Jaysankar Lal Shaw: Indian Analytic and Anglophone Philosophy* Jaysankar Lal Shaw, 2016-09-22 One of the first philosophers to relate Indian philosophical thought to Western analytic philosophy Jaysankar Lal Shaw has been reflecting on analytic themes from Indian philosophy for over 40 years This collection of his most important writings introduces his work and presents new ways of using Indian classical thought to approach and understand Western philosophy By expanding reinterpreting and reclassifying concepts and views of Indian philosophers Shaw applies them to the main issues and theories discussed in contemporary philosophy of language and epistemology Carefully constructed this volume of his collected writings shows the parallels Shaw draws between core topics in both traditions such as proper names definite descriptions meaning of a sentence knowledge doubt inference and testimony It captures how Shaw uses the techniques and concepts of Indian philosophers especially the followers of the Navya Nyaya to

address global problems like false belief higher order knowledge and extraordinary perception Exploring timeless ideas from Indian thought alongside major issues in contemporary philosophy Shaw reveals how the two traditions can interact and throw light on each other providing better solutions to philosophical problems He has also reflected on modern issues such as freedom morality and harmony from the classical Indian thought Featuring a glossary and updates to his writings The Collected Writings of Jaysankar Lal Shaw Indian Analytic and Anglophone Philosophy also includes new work by Shaw on the relationship between Indian and analytic philosophy today An Introduction to Logic Peter Alexander,2019-10-30

Originally published in 1969 This book is for undergraduates whether specializing in philosophy or not It assumes no previous knowledge of logic but aims to show how logical notions arise from or are abstracted from everyday discourse whether technical or non technical It sets out a knowledge of principles and while not historical gives an account of the reasons for which modern systems have emerged from the traditional syllogistic logic demonstrating how certain central ideas have developed The text explains the connections between everyday reasoning and formal logic and works up to a brief sketch of systems of propositional calculus and predicate calculus using both the axiomatic method and the method of natural deduction It provides a self contained introduction but for those who intend to study the subject further it contains many suggestions and a sound basis for more advanced study **Events, Arguments, and Aspects** Klaus Robering,2014-03-15

The verb has often been considered the center of the sentence and has hence always attracted the special attention of the linguist The present volume collects novel approaches to two classical topics within verbal semantics namely argument structure and the treatment of time and aspect The linguistic material covered comes from a broad spectrum of languages including English German Danish Ukrainian and Australian aboriginal languages and methods from both cognitive and formal semantics are applied in the analyses presented here Some of the authors use a variety of event semantics in order to analyze argument structure and aspect whereas others employ ideas coming from object oriented programming in order to achieve new insights into the way how verbs select their arguments and how events are classified into different types Both kinds of methods are also used to give accounts of dynamical aspects of semantic interpretation such as coercion and type shifting

Introduction to Mathematical Logic Hans Hermes,2013-06-29 This book grew out of lectures It is intended as an introduction to classical two valued predicate logic The restriction to classical logic is not meant to imply that this logic is intrinsically better than other non classical logics however classical logic is a good introduction to logic because of its simplicity and a good basis for applications because it is the foundation of classical mathematics and thus of the exact sciences which are based on it The book is meant primarily for mathematics students who are already acquainted with some of the fundamental concepts of mathematics such as that of a group It should help the reader to see for himself the advantages of a formalisation The step from the everyday language to a formalised language which usually creates difficulties is discussed and practised thoroughly The analysis of the way in which basic mathematical structures are

approached in mathematics leads in a natural way to the semantic notion of consequence One of the substantial achievements of modern logic has been to show that the notion of consequence can be replaced by a provably equivalent notion of derivability which is defined by means of a calculus Today we know of many calculi which have this property

Handbook of Quantum Logic and Quantum Structures Kurt Engesser,Dov M. Gabbay,Daniel Lehmann,2009-06-16

Quantum mechanics is said to be the most successful physical theory ever It is in fact unique in its success when applied to concrete physical problems On the other hand however it raises profound conceptual problems that are equally unprecedented Quantum logic the topic of this volume can be described as an attempt to cast light on the puzzle of quantum mechanics from the point of view of logic Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic has undergone an enormous development Various schools of thought and approaches have emerged and there are a variety of technical results The chapters of this volume constitute a comprehensive presentation of the main schools approaches and results in the field of quantum logic Authored by eminent scholars in the field Material presented is of recent origin representing the frontier of the subject Provides the most comprehensive and varied discussion of Quantum Mechanics available

Logic as a Tool Valentin Goranko,2016-08-10 Written in a clear precise and user friendly style Logic as a Tool A Guide to Formal Logical Reasoning is intended for undergraduates in both mathematics and computer science and will guide them to learn understand and master the use of classical logic as a tool for doing correct reasoning It offers a systematic and precise exposition of classical logic with many examples and exercises and only the necessary minimum of theory The book explains the grammar semantics and use of classical logical languages and teaches the reader how grasp the meaning and translate them to and from natural language It illustrates with extensive examples the use of the most popular deductive systems axiomatic systems semantic tableaux natural deduction and resolution for formalising and automating logical reasoning both on propositional and on first order level and provides the reader with technical skills needed for practical derivations in them Systematic guidelines are offered on how to perform logically correct and well structured reasoning using these deductive systems and the reasoning techniques that they employ Concise and systematic exposition with semi formal but rigorous treatment of the minimum necessary theory amply illustrated with examples Emphasis both on conceptual understanding and on developing practical skills Solid and balanced coverage of syntactic semantic and deductive aspects of logic Includes extensive sets of exercises many of them provided with solutions or answers Supplemented by a website including detailed slides additional exercises and solutions For more information browse the book s website at <https://logicasatool.wordpress.com>

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