

# SET THEORY AND ITS LOGIC | BY WILLARD VAN ORMAN QUINE

REVISED EDITION

Harvard University Press

[308]

By assumed use of  $\forall$ , we have necessarily that if  $x \in C$ , hence  $\exists y (x \in y)$ , hence  $\exists y (x \in y \wedge y \in C)$ , hence  $\exists y (y \in C)$ , which is to say,  $\exists x (x \in C)$ . Also from  $\forall x (x \in C)$  we have more quickly that  $\exists x (x \in C)$ . So there are  $\epsilon$  and  $\exists$  such that

$$\epsilon \rightarrow \exists x (x \in C) \quad (11)$$

$$\exists x (x \in C) \rightarrow \epsilon \quad (12)$$

So

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (13)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (14)$$

$\epsilon \leftrightarrow \exists x (x \in C)$  and  $\epsilon \leftrightarrow \exists x (x \in C)$  are  $\epsilon \leftrightarrow \exists x (x \in C)$ ,  $\epsilon \leftrightarrow \exists x (x \in C)$ , and  $\epsilon \leftrightarrow \exists x (x \in C)$ .

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (15)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (16)$$

By (13), (14), and (15),  $\epsilon$  and  $\exists$  are correspondences. By (15) and (16), their right fields are mutually exclusive. By (16), (12), and (14), their left fields are equal.

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (17)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (18)$$

By (17) and (18),  $\epsilon \leftrightarrow \exists x (x \in C)$ . By (17) and (18),  $\epsilon \leftrightarrow \exists x (x \in C)$ .

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (19)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (20)$$

By (19) and (20),  $\epsilon \leftrightarrow \exists x (x \in C)$ . By (19) and (20),  $\epsilon \leftrightarrow \exists x (x \in C)$ .

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (21)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (22)$$

Consider  $\epsilon$ .

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (23)$$

$$\epsilon \leftrightarrow \exists x (x \in C) \quad (24)$$

# Set Theory And Its Logic

**Sean Morris**



## **Set Theory And Its Logic:**

**Set Theory and Its Logic** Willard Van Orman Quine, 1969 This is an extensively revised edition of W V 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 *Set Theory and Logic* Robert R. Stoll, 2012-05-23 Explores sets and relations the natural number sequence and its generalization extension of natural numbers to real numbers logic informal axiomatic mathematics Boolean algebras informal axiomatic set theory several algebraic theories and 1st order theories SET THEORY AND FOUNDATIONS OF MATHEMATICS DOUGLAS. PORTER CENZER (CHRISTOPHER. ZAPLETAL, JINDRICH.), 2025 **Set Theory and its Philosophy** Michael Potter, 2004-01-15 Michael Potter presents a comprehensive new philosophical introduction to set theory Anyone wishing to work on the logical foundations of mathematics must understand set theory which lies at its heart Potter offers a thorough account of cardinal and ordinal arithmetic and the various axiom candidates He discusses in detail the project of set theoretic reduction which aims to interpret the rest of mathematics in terms of set theory The key question here is how to deal with the paradoxes that bedevil set theory Potter offers a strikingly simple version of the most widely accepted response to the paradoxes which classifies sets by means of a hierarchy of levels What makes the book unique is that it interweaves a careful presentation of the technical material with a penetrating philosophical critique Potter does not merely expound the theory dogmatically but at every stage discusses in detail the reasons that can be offered for believing it to be true *Set Theory and its Philosophy* is a key text for philosophy mathematical logic and computer science 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 **Set Theory of the Continuum** Haim Judah, Winfried Just, Hugh Woodin, 2012-12-06 Primarily consisting of talks presented at a workshop at the MSRI during its Logic Year 1989-90 this volume is intended to reflect the whole spectrum of activities in set theory The first section of the book comprises the invited papers surveying the state of the art in a wide range of topics of set theoretic research The second section includes research papers on various aspects of set theory and its relation to algebra and topology

Contributors include J Bagaria T Bartoszynski H Becker P Dehornoy Q Feng M Foreman M Gitik L Harrington S Jackson H Judah W Just A S Kechris A Louveau S MacLane M Magidor A R D Mathias G Melles W J Mitchell S Shelah R A Shore R I Soare L J Stanley B Velikovic H Woodin

**Lectures in Logic and Set Theory: Volume 1, Mathematical Logic** George Tourlakis, 2003-01-09 This two volume work bridges the gap between introductory expositions of logic or set theory on one hand and the research literature on the other It can be used as a text in an advanced undergraduate or beginning graduate course in mathematics computer science or philosophy The volumes are written in a user friendly conversational lecture style that makes them equally effective for self study or class use Volume 1 includes formal proof techniques a section on applications of compactness including nonstandard analysis a generous dose of computability and its relation to the incompleteness phenomenon and the first presentation of a complete proof of Godel's 2nd incompleteness since Hilbert and Bernays's Grundlagen theorem

**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

**Set Theory** Kenneth Kunen, 2011 This book is designed for readers who know elementary mathematical logic and axiomatic set theory and who want to learn more about set theory The primary focus of the book is on the independence proofs Most famous among these is the independence of the Continuum Hypothesis CH that is there are models of the axioms of set theory ZFC in which CH is true and other models in which CH is false More generally cardinal exponentiation on the regular cardinals can consistently be anything not contradicting the classical theorems of Cantor and König The basic methods for the independence proofs are the notion of constructibility introduced by Gödel and the method of forcing introduced by Cohen This book describes these methods in detail verifies the basic independence results for cardinal exponentiation and also applies these methods to prove the independence of various mathematical questions in measure theory and general topology Before the chapters on forcing there is a fairly long chapter on infinitary combinatorics This consists of just mathematical theorems not independence results but it stresses the areas of mathematics where set theoretic topics such as cardinal arithmetic are relevant There is in

fact an interplay between infinitary combinatorics and independence proofs. Infinitary combinatorics suggests many set theoretic questions that turn out to be independent of ZFC but it also provides the basic tools used in forcing arguments. In particular Martin's Axiom which is one of the topics under infinitary combinatorics introduces many of the basic ingredients of forcing.

**Concise Introduction to Logic and Set Theory** Iqbal H. Jebril, Hemen Dutta, Ilwoo Cho, 2021-09-30 This book deals with two important branches of mathematics namely logic and set theory. Logic and set theory are closely related and play very crucial roles in the foundation of mathematics and together produce several results in all of mathematics. The topics of logic and set theory are required in many areas of physical sciences, engineering and technology. The book offers solved examples and exercises and provides reasonable details to each topic discussed for easy understanding. The book is designed for readers from various disciplines where mathematical logic and set theory play a crucial role. The book will be of interest to students and instructors in engineering, mathematics, computer science and technology.

**Set Theory and Its Logic** Willard Van Orman Quine, 1980 *Set Theory, Logic and Their Limitations* Moshe Machover, 1996-05-23 This is an introduction to set theory and logic that starts completely from scratch. The text is accompanied by many methodological remarks and explanations. A rigorous axiomatic presentation of Zermelo-Fraenkel set theory is given demonstrating how the basic concepts of mathematics have apparently been reduced to set theory. This is followed by a presentation of propositional and first order logic. Concepts and results of recursion theory are explained in intuitive terms and the author proves and explains the limitative results of Skolem, Tarski, Church and Gödel's celebrated incompleteness theorems. For students of mathematics or philosophy this book provides an excellent introduction to logic and set theory.

**Set Theory** Daniel W. Cunningham, 2016-07-18 Set theory is a rich and beautiful subject whose fundamental concepts permeate virtually every branch of mathematics. One could say that set theory is a unifying theory for mathematics since nearly all mathematical concepts and results can be formalized within set theory. This textbook is meant for an upper undergraduate course in set theory. In this text the fundamentals of abstract sets including relations, functions, the natural numbers, order, cardinality, transfinite recursion, the axiom of choice, ordinal numbers and cardinal numbers are developed within the framework of axiomatic set theory. The reader will need to be comfortable reading and writing mathematical proofs. The proofs in this textbook are rigorous, clear and complete while remaining accessible to undergraduates who are new to upper level mathematics. Exercises are included at the end of each section in a chapter with useful suggestions for the more challenging exercises.

**Quine, New Foundations, and the Philosophy of Set Theory** Sean Morris, 2018-12-13 Provides an accessible mathematical and philosophical account of Quine's set theory, New Foundations.

**Elements of Set Theory** Herbert B. Enderton, 1977-04-28 This is an introductory undergraduate textbook in set theory. In mathematics these days essentially everything is a set. Some knowledge of set theory is necessary part of the background everyone needs for further study of mathematics. It is also possible to study set theory for its own interest; it is a subject with intriguing results about simple

objects This book starts with material that nobody can do without There is no end to what can be learned of set theory but here is a beginning

**Sets, Logic and Categories** Peter J. Cameron, 1999-01-22 Set theory logic and category theory lie at the foundations of mathematics and have a dramatic effect on the mathematics that we do through the Axiom of Choice G del s Theorem and the Skolem Paradox But they are also rich mathematical theories in their own right contributing techniques and results to working mathematicians such as the Compactness Theorem and module categories The book is aimed at those who know some mathematics and want to know more about its building blocks Set theory is first treated naively an axiomatic treatment is given after the basics of first order logic have been introduced The discussion is supported by a wide range of exercises The final chapter touches on philosophical issues The book is supported by a World Wide Web site containing a variety of supplementary material

Set Theory and Its Logic Willard Van Orman Quine, 1969 An Outline of Set Theory James M. Henle, 2007-01-01 An innovative problem oriented introduction to set theory this volume is intended for undergraduate courses in which students work in groups on projects and present their solutions to the class The three part treatment consists of problems hints for their solutions and complete answers 1986 edition

**The Forcing Method in Set Theory** Matteo Viale, 2024-11-11 The main aim of this book is to provide a compact self contained presentation of the forcing technique devised by Cohen to establish the independence of the continuum hypothesis from the axioms of set theory The book follows the approach to the forcing technique via Boolean valued semantics independently introduced by Vopenka and Scott Solovay it develops out of notes I prepared for several master courses on this and related topics and aims to provide an alternative and more compact account of this topic with respect to the available classical textbooks The aim of the book is to take up a reader with familiarity with logic and set theory at the level of an undergraduate course on both topics e g familiar with most of the content of introductory books on first order logic and set theory and bring her him to page with the use of the forcing method to produce independence or undecidability results in mathematics Familiarity of the reader with general topology would also be quite helpful however the book provides a compact account of all the needed results on this matter Furthermore the book is organized in such a way that many of its parts can also be read by scholars with almost no familiarity with first order logic and or set theory The book presents the forcing method outlining in many situations the intersections of set theory and logic with other mathematical domains My hope is that this book can be appreciated by scholars in set theory and by readers with a mindset oriented towards areas of mathematics other than logic and a keen interest in the foundations of mathematics

*The Joy of Sets* Keith Devlin, 2012-12-06 This book provides an account of those parts of contemporary set theory of direct relevance to other areas of pure mathematics The intended reader is either an advanced level mathematics undergraduate a beginning graduate student in mathematics or an accomplished mathematician who desires or needs some familiarity with modern set theory The book is written in a fairly easy going style with minimal formalism In Chapter 1 the basic principles of set theory are developed in a naive manner Here the notions of

set union intersection power set relation function etc are defined and discussed One assumption in writing Chapter 1 has been that whereas the reader may have met all of these 1 concepts before and be familiar with their usage she may not have considered the various notions as forming part of the continuous development of a pure subject namely set theory Consequently the presentation is at the same time rigorous and fast

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