

SET THEORY AND ITS LOGIC | BY WILLARD VAN ORMAN QUINE

REVISED EDITION

Mathematical Philosophy

[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 ϵ 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 (11), (12), and (13), ϵ and \exists are correspondences. By (13) and (14), their right fields are mutually exclusive. By (15), (16), and (17), their left fields are equal.

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

$$(17)$$

By (11) and (12), $\epsilon \leftrightarrow \exists x (x \in C)$. By (13) and (14), $\epsilon \leftrightarrow \exists x (x \in C)$. So

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

$$(18)$$

By (15) and (16), $\epsilon \leftrightarrow \exists x (x \in C)$. By (17) and (18), $\epsilon \leftrightarrow \exists x (x \in C)$. So

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

$$(19)$$

Consider ϵ .

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

$$(20)$$

Set Theory And Its Logic

DOUGLAS. PORTER CENZER
(CHRISTOPHER. ZAPLETAL, JINDRICH.)



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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 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

Concise Introduction to Logic and Set Theory Iqbal H. Jebril, Hemen Dutta, Ilwoo Cho, 2021-10-14 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 interested to students and instructors in engineering mathematics computer science and technology

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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 G del the celebrated incompleteness theorems For students of mathematics or philosophy this book provides an excellent introduction to logic and set theory

Quine, New Foundations, and the Philosophy of Set Theory Sean Morris, 2018-12-13 Quine's set theory New Foundations has often been treated as an anomaly in the history and philosophy of set theory In this book Sean Morris shows that it is in fact well motivated emerging in a natural way from the early development of set theory Morris introduces and explores the notion of set theory as explication the view that there is no single correct axiomatization of set theory but rather that the various axiomatizations all

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Set Theory John L. Bell, 2011-05-05 This third edition now available in paperback is a follow up to the author's classic Boolean Valued Models and Independence Proofs in Set Theory It provides an exposition of some of the most important results in set theory obtained in the 20th century the independence of the continuum hypothesis and the axiom of choice Aimed at graduate students and researchers in mathematics mathematical logic philosophy and computer science the third edition has been extensively updated with expanded introductory material new chapters and a new appendix on category theory It covers recent developments in the field and contains numerous exercises along with updated and increased coverage of the background material This new paperback edition includes additional corrections and for the first time will make this landmark text accessible to students in logic and set theory

The Foundations of Mathematics in the Theory of Sets John P. Mayberry, 2000 This book presents a unified approach to the foundations of mathematics in the theory of sets covering both conventional and finitary constructive mathematics It is based on a philosophical historical and mathematical analysis of the relation between the concepts of natural number and set The author investigates the logic of quantification over the universe of sets and discusses its role in second order logic as well as in the analysis of proof by induction and definition by recursion Suitable for graduate students and researchers in both philosophy and mathematics

The Limits of Logic Stewart Shapiro, 2016-12-05 The International research Library of Philosophy collects in book form a wide range of important and influential essays in philosophy drawn predominantly from English language journals Each volume in the library deals with a field of enquiry which has received significant attention in philosophy in the last 25 years and is edited by a philosopher noted in that field

Lectures in Logic and Set Theory: Volume 2, Set Theory George Tourlakis, 2003-02-13 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 II on formal ZFC set theory incorporates a self contained chapter 0 on proof techniques so that it is based on formal logic in the style of Bourbaki The emphasis on basic techniques will provide the reader with a solid foundation in set theory and provides a context for the presentation of advanced topics such as absoluteness relative consistency results two expositions of Gödel's constructible universe numerous ways of viewing recursion and a chapter on Cohen forcing

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