

SET THEORY AND THE CONTINUUM PROBLEM

**Raymond M. Smullyan
and Melvin Fitting**

Set Theory And The Continuum Problem

Paul J. Cohen



Set Theory And The Continuum Problem:

Set Theory and the Continuum Problem Raymond M. Smullyan, Melvin Fitting, 1996 Set Theory and the Continuum Problem is a novel introduction to set theory including axiomatic development consistency and independence results It is self contained and covers all the set theory that a mathematician should know Part I introduces set theory including basic axioms development of the natural number system Zorn's Lemma and other maximal principles Part II proves the consistency of the continuum hypothesis and the axiom of choice with material on collapsing mappings model theoretic results and constructible sets Part III presents a version of Cohen's proofs of the independence of the continuum hypothesis and the axiom of choice It also presents for the first time in a textbook the double induction and superinduction principles and Cohen's theorem The book will interest students and researchers in logic and set theory Set Theory and the Continuum Hypothesis

Paul J. Cohen, 2008-12-09 This exploration of a notorious mathematical problem is the work of the man who discovered the solution Written by an award winning professor at Stanford University it employs intuitive explanations as well as detailed mathematical proofs in a self contained treatment This unique text and reference is suitable for students and professionals 1966 edition Copyright renewed 1994

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 **Set**

Theory Abhijit Dasgupta, 2013-12-11 What is a number What is infinity What is continuity What is order Answers to these fundamental questions obtained by late nineteenth century mathematicians such as Dedekind and Cantor gave birth to set theory This textbook presents classical set theory in an intuitive but concrete manner To allow flexibility of topic selection in courses the book is organized into four relatively independent parts with distinct mathematical flavors Part I begins with the Dedekind Peano axioms and ends with the construction of the real numbers The core Cantor Dedekind theory of cardinals orders and ordinals appears in Part II Part III focuses on the real continuum Finally foundational issues and formal axioms are introduced in Part IV Each part ends with a postscript chapter discussing topics beyond the scope of the main text ranging from philosophical remarks to glimpses into landmark results of modern set theory such as the resolution of Luzin's problems on projective sets using determinacy of infinite games and large cardinals Separating the metamathematical issues into an optional fourth part at the end makes this textbook suitable for students interested in any field of mathematics not just for those planning to specialize in logic or foundations There is enough material in the text for a year long course at the

upper undergraduate level For shorter one semester or one quarter courses a variety of arrangements of topics are possible The book will be a useful resource for both experts working in a relevant or adjacent area and beginners wanting to learn set theory via self study

Philosophical Introduction to Set Theory Stephen Pollard, 2015-07-15 This unique approach maintains that set theory is the primary mechanism for ideological and theoretical unification in modern mathematics and its technically informed discussion covers a variety of philosophical issues 1990 edition

Natural Axioms of Set Theory and the Continuum Problem Joan Bagaria, Centre de Recerca Matemàtica, 2004

Notes on Set Theory Yiannis Moschovakis, 2013-04-17 What this book is about The theory of sets is a vibrant exciting mathematical theory with its own basic notions fundamental results and deep open problems and with significant applications to other mathematical theories At the same time axiomatic set theory is often viewed as a foundation of mathematics it is alleged that all mathematical objects are sets and their properties can be derived from the relatively few and elegant axioms about sets Nothing so simple minded can be quite true but there is little doubt that in standard current mathematical practice making a notion precise is essentially synonymous with defining it in set theory Set theory is the official language of mathematics just as mathematics is the official language of science Like most authors of elementary introductory books about sets I have tried to do justice to both aspects of the subject From straight set theory these Notes cover the basic facts about abstract sets including the Axiom of Choice transfinite recursion and cardinal and ordinal numbers Somewhat less common is the inclusion of a chapter on pointsets which focuses on results of interest to analysts and introduces the reader to the Continuum Problem central to set theory from the very beginning

A Course in Mathematical Logic for Mathematicians Yu. I. Manin, 2009-10-13 1 The first edition of this book was published in 1977 The text has been well received and is still used although it has been out of print for some time In the intervening three decades a lot of interesting things have happened to mathematical logic i Model theory has shown that insights acquired in the study of formal languages could be used fruitfully in solving old problems of conventional mathematics ii Mathematics has been and is moving with growing acceleration from the set theoretic language of structures to the language and intuition of higher categories leaving behind old concerns about infinities a new view of foundations is now emerging iii Computer science a no nonsense child of the abstract computability theory has been creatively dealing with old challenges and providing new ones such as the P NP problem Planning additional chapters for this second edition I have decided to focus on model theory the conspicuous absence of which in the first edition was noted in several reviews and the theory of computation including its categorical and quantum aspects The whole Part IV Model Theory is new I am very grateful to Boris Zilber who kindly agreed to write it It may be read directly after Chapter II The contents of the first edition are basically reproduced here as Chapters I VIII Section IV 7 on the cardinality of the continuum is completed by Section IV 7 3 discussing H Woodin's discovery

Cantorian Set Theory and Limitation of Size Michael Hallett, 1986 This volume presents the philosophical and heuristic framework Cantor developed and explores its lasting effect on modern

mathematics Establishes a new plateau for historical comprehension of Cantor's monumental contribution to mathematics

The American Mathematical Monthly *A Logical Journey* Hao Wang, 1997-02-03 Hao Wang 1921-1995 was one of the few confidants of the great mathematician and logician Kurt Gödel. *A Logical Journey* is a continuation of Wang's *Reflections on Gödel* and also elaborates on discussions contained in *From Mathematics to Philosophy*. A decade in preparation it contains important and unfamiliar insights into Gödel's views on a wide range of issues from Platonism and the nature of logic to minds and machines, the existence of God and positivism and phenomenology. The impact of Gödel's theorem on twentieth century thought is on par with that of Einstein's theory of relativity, Heisenberg's uncertainty principle or Keynesian economics. These previously unpublished intimate and informal conversations however bring to light and amplify Gödel's other major contributions to logic and philosophy. They reveal that there is much more in Gödel's philosophy of mathematics than is commonly believed and more in his philosophy than his philosophy of mathematics. Wang writes that it is even possible that his quite informal and loosely structured conversations with me, which I am freely using in this book, will turn out to be the fullest existing expression of the diverse components of his inadequately articulated general philosophy. The first two chapters are devoted to Gödel's life and mental development. In the chapters that follow Wang illustrates the quest for overarching solutions and grand unifications of knowledge and action in Gödel's written speculations on God and an afterlife. He gives the background and a chronological summary of the conversations, considers Gödel's comments on philosophies and philosophers, his support of Husserl's phenomenology and his digressions on Kant and Wittgenstein and his attempt to demonstrate the superiority of the mind's power over brains and machines. Three chapters are tied together by what Wang perceives to be Gödel's governing ideal of philosophy: an exact theory in which mathematics and Newtonian physics serve as a model for philosophy or metaphysics. Finally, in an epilog, Wang sketches his own approach to philosophy in contrast to his interpretation of Gödel's outlook.

Problems in the Philosophy of Mathematics Brouwer, 2011-10-14

Problems in the Philosophy of Mathematics **Problems in the Philosophy of Mathematics** Imre Lakatos, 1967

Memoirs Of A Proof Theorist: Gödel & Other Logicians Nicholas Passell, Mariko Yasugi, 2003-02-10 This volume is a translation of the book *Gödel* written in Japanese by Gaisi Takeuti, a distinguished proof theorist. The core of the book comprises a memoir of K. Gödel. Takeuti's personal recollections and his interpretation of Gödel's attitudes towards mathematical logic. It also contains Takeuti's recollection of association with some other famous logicians. Everything in the book is original as the author adheres to his own experiences and interpretations. There is also an article on Hilbert's second problem as well as on the author's fundamental conjecture about second order logic.

Problems and Theorems in

Classical Set Theory Peter Komjáth, Vilmos Totik, 2006-11-22 Although the first decades of the 20th century saw some strong debates on set theory and the foundation of mathematics, afterwards set theory has turned into a solid branch of mathematics, indeed so solid that it serves as the foundation of the whole building of mathematics. Later generations honest to Hilbert's

dictum No one can chase us out of the paradise that Cantor has created for us proved countless deep and interesting theorems and also applied the methods of set theory to various problems in algebra topology in nitary combinatorics and real analysis The invention of forcing produced a powerful technically sophisticated tool for solving unsolvable problems Still most results of the pre Cohen era can be digested with just the knowledge of a commonsense introduction to the topic And it is a worthy effort here we refer not just to usefulness but first and foremost to mathematical beauty In this volume we offer a collection of various problems in set theory Most of classical set theory is covered classical in the sense that independence methods are not used but classical also in the sense that most results come from the period say 1920 1970

Many problems are also related to other fields of mathematics such as algebra combinatorics topology and real analysis We do not concentrate on the axiomatic framework although some aspects such as the axiom of foundation or the role of the axiom of choice are elaborated *Logic, Methodology and Philosophy of Science VI* J.J. Cohen, J. Los, H. Pfeiffer, K.-P.

Podewski, 2011-10-10 *Logic Methodology and Philosophy of Science VI* presents the results of recent research into the foundations of science The volume contains invited papers presented at the Congress covering the areas of Logic Mathematics Physical Sciences Biological Sciences and the Humanities **Simply Gödel** Richard Tieszen, 2017-04-11

Tieszen's *Simply Gödel* is a remarkable achievement a handy guide with the impact of a philosophical tome It's all here elegantly lucid discussions of Kurt Gödel's epochal discoveries a sympathetic account of the eccentric genius's life focused discussions of his encounters with his astonished peers and a visionary peek into the future of mathematics philosophy and the onrushing specter of robots with minds A compact masterpiece brimming with fresh revelations Rudy Rucker author of *Infinity and the Mind* Kurt Gödel 1906 1978 was born in Austria Hungary now the Czech Republic and grew up in an ethnic German family As a student he excelled in languages and mathematics mastering university level math while still in high school He received his doctorate from the University of Vienna at the age of 24 and a year later published the pioneering theorems on which his fame rests In 1939 with the rise of Nazism Gödel and his wife settled in the U.S. where he continued his groundbreaking work at the Institute for Advanced Study IAS in Princeton and became a close friend of Albert Einstein's In *Simply Gödel* Richard Tieszen traces Gödel's life and career from his early years in tumultuous culturally rich Vienna to his many brilliant achievements as a member of IAS as well as his repeated battles with mental illness In discussing Gödel's ideas Tieszen not only provides an accessible explanation of the incompleteness theorems but explores some of his lesser known writings including his thoughts on time travel and his proof of the existence of God With clarity and sympathy *Simply Gödel* brings to life Gödel's fascinating personal and intellectual journey and conveys the lasting impact of his work on our modern world **Descriptive Set Theory** Yiannis N. Moschovakis, 2025-01-31

Descriptive Set Theory is the study of sets in separable complete metric spaces that can be defined or constructed and so can be expected to have special properties not enjoyed by arbitrary pointsets This subject was started by the French analysts at the turn of the 20th century most

prominently Lebesgue and initially was concerned primarily with establishing regularity properties of Borel and Lebesgue measurable functions and analytic coanalytic and projective sets Its rapid development came to a halt in the late 1930s primarily because it bumped against problems which were independent of classical axiomatic set theory The field became very active again in the 1960s with the introduction of strong set theoretic hypotheses and methods from logic especially recursion theory which revolutionized it This monograph develops Descriptive Set Theory systematically from its classical roots to the modern effective theory and the consequences of strong especially determinacy hypotheses The book emphasizes the foundations of the subject and it sets the stage for the dramatic results established since the 1980s relating large cardinals and determinacy or allowing applications of Descriptive Set Theory to classical mathematics The book includes all the necessary background from advanced set theory logic and recursion theory Danish Yearbook of Philosophy Vol. 45

Finn Collin,2013-04-15 Danish Yearbook of Philosophy publishes contributions in English German and French Danish Yearbook of Philosophy mainly publishes articles relating to Danish philosophy or by authors with ties to Danish philosophy

Classic Set Theory D.C. Goldrei,2017-09-06 Designed for undergraduate students of set theory Classic Set Theory presents a modern perspective of the classic work of Georg Cantor and Richard Dedekind and their immediate successors This includes The definition of the real numbers in terms of rational numbers and ultimately in terms of natural numbers Defining natural numbers in terms of sets The potential paradoxes in set theory The Zermelo Fraenkel axioms for set theory The axiom of choice The arithmetic of ordered sets Cantor's two sorts of transfinite number cardinals and ordinals and the arithmetic of these The book is designed for students studying on their own without access to lecturers and other reading along the lines of the internationally renowned courses produced by the Open University There are thus a large number of exercises within the main body of the text designed to help students engage with the subject many of which have full teaching solutions In addition there are a number of exercises without answers so students studying under the guidance of a tutor may be assessed Classic Set Theory gives students sufficient grounding in a rigorous approach to the revolutionary results of set theory as well as pleasure in being able to tackle significant problems that arise from the theory **Set Theory** Lev D. Beklemishev,2000-04-01 Set Theory

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