

Exercise III.3.83 Assume that $E \subseteq \mathbb{R} \times \mathbb{R}$ is the graph of a function and $|E| < \mathfrak{p}$. Prove that there are Cantor sets $K_n \subseteq \mathbb{R} \times \mathbb{R}$, for $n \in \omega$, such that each K_n is the graph of a function and $E \subseteq \bigcup_n K_n$.

Hint. First derive this from $MA(|E|)$ and then note that the natural poset $\mathbb{Q}$ is σ -centered. $\mathbb{Q}$ can be the finite support product of ω copies of $\mathbb{P}$; the n^{th} copy describes K_n . A Cantor set $K \subseteq \mathbb{R} \times \mathbb{R}$ can always be described by a tree of rational open boxes $I_s \times J_s$ for $s \in 2^{<\omega}$, where $\bar{I}_{s \smallfrown 0} \times \bar{J}_{s \smallfrown 0}$ and $\bar{I}_{s \smallfrown 1} \times \bar{J}_{s \smallfrown 1}$ are disjoint subsets of $I_s \times J_s$. Each $p \in \mathbb{P}$ can be a pair, (t^p, e^p) , where t^p gives a finite amount of the tree and $e^p \in [E]^{<\omega}$ is a promise that the Cantor set will contain all the points of e . □

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Iain Adamson



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Set Theory for Pre-Beginners - Solution Guide Steve Warner, 2019-12-28 Set Theory for Pre Beginners Solution Guide This book contains complete solutions to the problems in the 8 Problem Sets in Set Theory for Pre Beginners Note that this book references examples and exercises from Set Theory for Pre Beginners Therefore it is strongly suggested that you purchase a copy of that book before purchasing this one

Set Theory An Introduction To Independence Proofs K. Kunen, 2014-06-28 Studies in Logic and the Foundations of Mathematics Volume 102 Set Theory An Introduction to Independence Proofs offers an introduction to relative consistency proofs in axiomatic set theory including combinatorics sets trees and forcing The book first tackles the foundations of set theory and infinitary combinatorics Discussions focus on the Suslin problem Martin's axiom almost disjoint and quasi disjoint sets trees extensionality and comprehension relations functions and well ordering ordinals cardinals and real numbers The manuscript then ponders on well founded sets and easy consistency proofs including relativization absoluteness reflection theorems properties of well founded sets and induction and recursion on well founded relations The publication examines constructible sets forcing and iterated forcing Topics include Easton forcing general iterated forcing Cohen model forcing with partial functions of larger cardinality forcing with finite partial functions and general extensions The manuscript is a dependable source of information for mathematicians and researchers interested in set theory

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

Classic Set Theory D.C. Goldrei, 1996-07-01 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 for Beginners - Solution Guide Steve Warner, 2019-11-09 Set Theory for Beginners Solution Guide This book contains complete solutions to the problems in the 16 Problem Sets in Set Theory for Beginners Note that this book references examples and theorems from Set Theory for Beginners Therefore it is strongly suggested that you purchase a copy of that book before purchasing this one

Exercises in Set Theory L.E. Sigler, 1966

Set Theory Kenneth Kunen, 1980-01-01

Essential Concepts of Set Theory Robert S. Y. Wong, Manwai Yeung, 2016-07-01 For thousands of years it is generally believed that mathematics begins with the natural numbers and counting But there is something more fundamental than counting It is the grouping of things If a child is shown a picture of a farm with sheep and cows here and there and asked to count the number of sheep the child would first put the sheep in a group mentally and then count the number of sheep in the group Without grouping counting cannot happen Therefore mathematics begins with the grouping of objects which is the object of study of set theory In this book we explore the fundamental concepts of sets and related topics propositional logic methods of proof relations and functions Unlike the technical approach adopted in most books we use many everyday examples to show that these concepts can be found everywhere in our daily life The book also has plenty of exercises and solutions to all exercises are provided

Set Theory And Foundations Of Mathematics: An Introduction To Mathematical Logic - Volume I: Set Theory (Second Edition) Douglas Cenzer, Christopher Porter, Jindrich Zapletal, 2025-01-10 This book presents both axiomatic and descriptive set theory targeting upper level undergraduate and beginning graduate students It aims to equip them for advanced studies in set theory mathematical logic and other mathematical fields including analysis topology and algebra The book is designed as a flexible and accessible text for a one semester introductory in set theory where the existing alternatives may be more demanding or specialized Readers will learn the universally accepted basis of the field with several popular topics added as an option Pointers to more advanced study are scattered through the text This new edition includes additional topics on trees ordinal functions and sets along with numerous new exercises The presentation has been improved and several typographical errors have been corrected

Intermediate Set Theory F. R. Drake, D. Singh, 1996-09-11 The authors cover first order logic

and the main topics of set theory in a clear mathematical style with sensible philosophical discussion The emphasis is on presenting the use of set theory in various areas of mathematics with particular attention paid to introducing axiomatic set theory showing how the axioms are needed in mathematical practice and how they arise Other areas introduced include the axiom of choice filters and ideals Exercises are provided which are suitable for both beginning students and degree level students

Exercises in Set Theory Laurence E. Sigler, 1976

Sets: Naïve, Axiomatic and Applied D. Van Dalen, H. C. Doets, H. De Swart, 2014-05-09

Sets Naïve Axiomatic and Applied is a basic compendium on naïve axiomatic and applied set theory and covers topics ranging from Boolean operations to union intersection and relative complement as well as the reflection principle measurable cardinals and models of set theory Applications of the axiom of choice are also discussed along with infinite games and the axiom of determinateness Comprised of three chapters this volume begins with an overview of naïve set theory and some important sets and notations The equality of sets subsets and ordered pairs are considered together with equivalence relations and real numbers The next chapter is devoted to axiomatic set theory and discusses the axiom of regularity induction and recursion and ordinal and cardinal numbers In the final chapter applications of set theory are reviewed paying particular attention to filters Boolean algebra and inductive definitions together with trees and the Borel hierarchy This book is intended for non logicians students and working and teaching mathematicians

Notes on Set Theory Yiannis Moschovakis, 2005-12-21 The axiomatic theory of sets is a vibrant part of pure mathematics with its own basic notions fundamental results and deep open problems It is also viewed as a foundation of mathematics so that to make a notion precise simply means to define it in set theory This book gives a solid introduction to pure set theory through transfinite recursion and the construction of the cumulative hierarchy of sets and also attempts to explain how mathematical objects can be faithfully modeled within the universe of sets In this new edition the author has added solutions to the exercises and rearranged and reworked the text to improve the presentation

A Set Theory

Workbook Iain Adamson, 1997-12-18 This book is a companion to A general topology workbook published by Birkhäuser last year In an ideal world the order of publication would have been reversed for the notation and some of the results of the present book are used in the topology book and on the other hand the reader may be assured no topology is used here Both books share the word Workbook in their titles They are based on the principle that for at least some branches of mathematics a good way for a student to learn is to be presented with a clear statement of the definitions of the terms with which the subject is concerned and then to be faced with a collection of problems involving the terms just defined In adopting this approach with my Dundee students of set theory and general topology I found it best not to differentiate too precisely between simple illustrative examples easy exercises and results which in conventional textbooks would be labelled as Theorems

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.

Elements of Set Theory Herbert B.

Enderton, 1977-05-23 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.

Introduction to Modern Set Theory Judith Roitman, 1990-01-16 This is modern set theory from the ground up from partial orderings and well ordered sets to models, infinite combinatorics and large cardinals. The approach is unique providing rigorous treatment of basic set theoretic methods while integrating advanced material such as independence results throughout. The presentation incorporates much interesting historical material and no background in mathematical logic is assumed. Treatment is self contained featuring theorem proofs supported by diagrams, examples and exercises. Includes applications of set theory to other branches of mathematics.

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

Elementary Set Theory, Part I K.T. Leung, Doris Lai-chue Chen, 1992-10-01 This book provides students of mathematics with the minimum amount of knowledge in logic and set theory needed for a profitable continuation of their studies There is a chapter on statement calculus followed by eight chapters on set theory

Notes on Set Theory Yiannis N. Moschovakis, 1994 The axiomatic theory of sets is a vibrant part of pure mathematics with its own basic notions fundamental results and deep open problems It is also viewed as a foundation of mathematics so that to make a notion precise simply means to define it in set theory This book gives a solid introduction to pure set theory through transfinite recursion and the construction of the cumulative hierarchy of sets and also attempts to explain how mathematical objects can be faithfully modeled within the universe of sets In this new edition the author has added solutions to the exercises and rearranged and reworked the text to improve the presentation

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