

Discovering Modern Set Theory. I The Basics

Winfried Just
Martin Weese

Graduate Studies
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Volume 1



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Discovering Modern Set Theory

Ralf Schindler



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Discovering Modern Set Theory. II: Set-Theoretic Tools for Every Mathematician Winfried Just and Martin Weese, The second in a two volume text for a graduate course or self study in set theory. Volume I would be the best prerequisite but any background would suffice that supplied a basic naive and axiomatic knowledge of set theory and some knowledge of mathematical logic and general topology. Introduces various set theory techniques that have been fruitfully applied in other fields. Bibliographic references are minimal. The member price is 29.

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Devlin,2012-12-06 This book is intended to provide an account of those parts of contemporary set theory which are of direct relevance to other areas of pure mathematics The intended reader is either an advanced level undergraduate or a beginning graduate student in mathematics or else an accomplished mathematician who desires or needs a familiarity with modern set theory The book is written in a fairly easy going style with a minimum of formalism a format characteristic of contemporary set theory In Chapter I the basic principles of set theory are developed in a naive manner Here the notions of set \cup intersection power set \mathcal{P} relation \mathcal{R} function etc are defined and discussed One assumption in writing this chapter has been that whereas the reader may have met all of these concepts before and be familiar with their usage he may not have considered the various notions as forming part of the continuous development of a pure subject namely set theory Consequently our development is at the same time rigorous and fast Chapter II develops the theory of sets proper Starting with the naive set theory of Chapter I we begin by asking the question What is a set Attempts to give a rigorous answer lead naturally to the axioms of set theory introduced by Zermelo and Fraenkel which is the system taken as basic in this book

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Consequently the presentation is at the same time rigorous and fast Set Theory Ralf Schindler,2014-05-22 This textbook gives an introduction to axiomatic set theory and examines the prominent questions that are relevant in current research in a manner that is accessible to students Its main theme is the interplay of large cardinals inner models forcing and descriptive set theory The following topics are covered Forcing and constructability The Solovay Shelah Theorem i e the equiconsistency

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