Graduate Texts in Mathematics

Alexander S. Kechris

Classical Descriptive Set Theory

Classical Descriptive Set Theory

Yiannis N. Moschovakis

Classical Descriptive Set Theory:

   Classical Descriptive Set Theory Alexander Kechris,2012-12-06 Descriptive set theory has been one of the main areas of research in set theory for almost a century This text attempts to present a largely balanced approach which combines many elements of the different traditions of the subject It includes a wide variety of examples exercises over 400 and applications in order to illustrate the general concepts and results of the theory This text provides a first basic course in classical descriptive set theory and covers material with which mathematicians interested in the subject for its own sake or those that wish to use it in their field should be familiar Over the years researchers in diverse areas of mathematics such as logic and set theory analysis topology probability theory etc have brought to the subject of descriptive set theory their own intuitions concepts terminology and notation   **Classical Descriptive Set Theory** Alexander Kechris,1995-01-06

   Descriptive Set Theory Yiannis N. Moschovakis,2009-06-30 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   *Descriptive Set Theory and the Structure of Sets of Uniqueness* A. S. Kechris,Alain Louveau,1987-11-27 To make this work accessible to logicians as well as set theorists and analysts classical and modern theory of sets of uniqueness are covered as well as the relevant parts of descriptive set theory   **Axiomatic Set Theory, Part 2** Thomas J. Jech,1971   *Invariant Descriptive Set Theory and the Topological Approach to Model Theory* Douglas Edward Miller,1976   **A Course on Borel Sets** S.M. Srivastava,1998-04-13 A thorough introduction to Borel sets and measurable selections acting as a stepping stone to descriptive set theory by presenting such important techniques as universal sets prewellordering scales etc It contains significant applications to other branches of mathematics and serves as a self contained reference accessible by mathematicians in many different disciplines Written in an easily understandable style and using only naive set theory general topology analysis and algebra it is thus well suited for graduates exploring areas of mathematics for their research and for those requiring Borel sets and measurable selections in their work   **Descriptive**

Set Theory and Subsystems of Analysis Kazuyuki Tanaka,1986 *Recursive Aspects of Descriptive Set Theory* Richard Mansfield,Galen Weitkamp,1985 Explores the nature of infinity with a view toward classifying and explaining its mathematical applications It presents not only the basics of the classical theory but also an introduction to the many important recent results and methods *Classical descriptive set theory* ,1995 **Levels of Explanation** Katie Robertson,Alastair Wilson,2024-12-09 This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations The different sciences furnish us with a wide variety of explanations some work at macroscopic scales some work at microscopic scales and some operate across different levels How do these different explanatory levels relate to one another and what is an explanatory level in the first place Over the last 50 years more and more philosophers both reductionists and anti reductionists no longer subscribe to the idea that the best explanation resides at the fundamental physical level New challenges arise from the success of scientific explanations employing multi level models which mix levels of explanation from distinctive differences between levels structures in biology cognitive science and social science from the apparently radical reimagining of the explanatory role of spacetime in our current best theories of fundamental physics and from the enduring mystery of how higher level explanations are possible in the first place These questions naturally connect to classic philosophical ways of thinking about the relationships between levels reduction emergence and fundamentality This volume presents a snapshot of cutting edge research on explanatory levels from their conceptual foundations to the details of how they are used in scientific practice **Probability Theory, Function Theory, Mechanics** I͡U͡riĭ Vasilʹevich Prokhorov,1990 This is a translation of the fifth and final volume in a special cycle of publications in commemoration of the 50th anniversary of the Steklov Mathematical Institute of the Academy of Sciences in the USSR The purpose of the special cycle was to present surveys of work on certain important trends and problems pursued at the Institute Because the choice of the form and character of the surveys were left up to the authors the surveys do not necessarily form a comprehensive overview but rather represent the authors perspectives on the important developments **Set Theory** Thomas Jech,2013-06-29 The main body of this book consists of 106 numbered theorems and a dozen of examples of models of set theory A large number of additional results is given in the exercises which are scattered throughout the text Most exer cises are provided with an outline of proof in square brackets and the more difficult ones are indicated by an asterisk I am greatly indebted to all those mathematicians too numerous to men tion by name who in their letters preprints handwritten notes lectures seminars and many conversations over the past decade shared with me their insight into this exciting subject XI CONTENTS Preface xi PART I SETS Chapter 1 AXIOMATIC SET THEORY I Axioms of Set Theory I 2 Ordinal Numbers 12 3 Cardinal Numbers 22 4 Real Numbers 29 5 The Axiom of Choice 38 6 Cardinal Arithmetic 42 7 Filters and Ideals Closed Unbounded Sets 52 8 Singular Cardinals 61 9 The Axiom of Regularity 70 Appendix Bernays

Godel Axiomatic Set Theory 76 Chapter 2 TRANSITIVE MODELS OF SET THEORY 10 Models of Set Theory 78 II Transitive Models of ZF 87 12 Constructible Sets 99 13 Consistency of the Axiom of Choice and the Generalized Continuum Hypothesis 108 14 The In Hierarchy of Classes Relations and Functions 114 15 Relative Constructibility and Ordinal Definability 126 PART II MORE SETS Chapter 3 FORCING AND GENERIC MODELS 16 Generic Models 137 17 Complete Boolean Algebras 144 18 **Descriptive Set Theory and Forcing** Arnold W. Miller,1995 <u>Descriptive Set Theory, Equivalence Relations, and Classification Problems in Analysis</u> John Daniel Clemens,2001 **Generalized Descriptive Set Theory and Classification Theory** Sy-David Friedman,Tapani Hyttinen, Vadim Kulikov,2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations *Handbook of Mathematical Logic* Jon Barwise,H. Jerome Keisler,1977 *Bulletin (new Series) of the American Mathematical Society* ,1981 **Analytic Sets** Claude Ambrose Rogers,London Mathematical Society,1980 *Mathematical Reviews* ,2001

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