# STRANGE FUNCTIONS IN REAL ANALYSIS THIRD EDITION

Alexander Kharazishvili





# **Strange Functions In Real Analysis**

**Nader Vakil** 

#### **Strange Functions In Real Analysis:**

Strange Functions in Real Analysis Alexander Kharazishvili, 2017-10-16 Strange Functions in Real Analysis Third Edition differs from the previous editions in that it includes five new chapters as well as two appendices More importantly the entire text has been revised and contains more detailed explanations of the presented material In doing so the book explores a number of important examples and constructions of pathological functions After introducing basic concepts the author begins with Cantor and Peano type functions then moves effortlessly to functions whose constructions require what is essentially non effective methods These include functions without the Baire property functions associated with a Hamel basis of the real line and Sierpinski Zygmund functions that are discontinuous on each subset of the real line having the cardinality continuum Finally the author considers examples of functions whose existence cannot be established without the help of additional set theoretical axioms On the whole the book is devoted to strange functions and point sets in real analysis and their applications Strange Functions in Real Analysis, Second Edition Alexander Kharazishvili,2005-12-20 Weierstrass and Blancmange nowhere differentiable functions Lebesgue integrable functions with everywhere divergent Fourier series and various nonintegrable Lebesgue measurable functions While dubbed strange or pathological these functions are ubiquitous throughout mathematics and play an important role in analysis not only as counterexamples of seemingly true and natural statements but also to stimulate and inspire the further development of real analysis Strange Functions in Real Analysis explores a number of important examples and constructions of pathological functions After introducing the basic concepts the author begins with Cantor and Peano type functions then moves to functions whose constructions require essentially noneffective methods These include functions without the Baire property functions associated with a Hamel basis of the real line and Sierpinski Zygmund functions that are discontinuous on each subset of the real line having the cardinality continuum Finally he considers examples of functions whose existence cannot be established without the help of additional set theoretical axioms and demonstrates that their existence follows from certain set theoretical hypotheses such as the Continuum Hypothesis Strange Functions in Real Analysis Alexander Kharazishvili, 2017-10-16 Strange Functions in Real Analysis Third Edition differs from the previous editions in that it includes five new chapters as well as two appendices More importantly the entire text has been revised and contains more detailed explanations of the presented material In doing so the book explores a number of important examples and constructions of pathological functions After introducing basic concepts the author begins with Cantor and Peano type functions then moves effortlessly to functions whose constructions require what is essentially non effective methods These include functions without the Baire property functions associated with a Hamel basis of the real line and Sierpinski Zygmund functions that are discontinuous on each subset of the real line having the cardinality continuum Finally the author considers examples of functions whose existence cannot be established without the help of additional set theoretical axioms On the

whole the book is devoted to strange functions and point sets in real analysis and their applications Strange Functions in Real Analysis A.B. Kharazishvili,2006 TOPICS IN MEASURE THEORY AND REAL ANALYSIS Alexander Kharazishvili,2009-11-01 This book highlights various topics on measure theory and vividly demonstrates that the different questions of this theory are closely connected with the central measure extension problem Several important aspects of the measure extension problem are considered separately set theoretical topological and algebraic Also various combinations e q algebraic topological of these aspects are discussed by stressing their specific features Several new methods are presented for solving the above mentioned problem in concrete situations In particular the following new results are obtained the measure extension problem is completely solved for invariant or quasi invariant measures on solvable uncountable groups non separable extensions of invariant measures are constructed by using their ergodic components absolutely non measurable additive functionals are constructed for certain classes of measures the structure of algebraic sums of measure zero sets is investigated. The material presented in this book is essentially self-contained and is oriented towards a wide audience of mathematicians including postgraduate students New results and facts given in the book are based on or closely connected with traditional topics of set theory measure theory and general topology such as infinite combinatorics Martin s Axiom and the Continuum Hypothesis Luzin and Sierpinski sets universal measure zero sets theorems on the existence of measurable selectors regularity properties of Borel measures on metric spaces and so on Essential information on these topics is also included in the text primarily in the form of Appendixes or Exercises which enables potential readers to understand the proofs and follow the constructions in full details This not only allows the book to be used as a monograph but also as a course of lectures for students whose interests lie in set theory real analysis measure theory and general topology

Set Theoretical Aspects of Real Analysis Alexander B. Kharazishvili,2014-08-26 Set Theoretical Aspects of Real Analysis is built around a number of questions in real analysis and classical measure theory which are of a set theoretic flavor Accessible to graduate students and researchers the beginning of the book presents introductory topics on real analysis and Lebesgue measure theory These topics highlight the boundary between fundamental concepts of measurability and nonmeasurability for point sets and functions The remainder of the book deals with more specialized material on set theoretical real analysis The book focuses on certain logical and set theoretical aspects of real analysis It is expected that the first eleven chapters can be used in a course on Lebesque measure theory that highlights the fundamental concepts of measurability and non measurability for point sets and functions Provided in the book are problems of varying difficulty that range from simple observations to advanced results Relatively difficult exercises are marked by asterisks and hints are included with additional explanation Five appendices are included to supply additional background information that can be read alongside before or after the chapters Dealing with classical concepts the book highlights material not often found in analysis courses It lays out in a logical systematic manner the foundations of set theory providing a readable treatment

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