

Klaus Weihrauch

Computable Analysis

An Introduction



Springer

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**Rodney G. Downey, Alexander
Melnikov**



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Computable Analysis Klaus Weihrauch, 2012-12-06 Is the exponential function computable Are union and intersection of closed subsets of the real plane computable Are differentiation and integration computable operators Is zero finding for complex polynomials computable Is the Mandelbrot set decidable And in case of computability what is the computational complexity Computable analysis supplies exact definitions for these and many other similar questions and tries to solve them Merging fundamental concepts of analysis and recursion theory to a new exciting theory this book provides a solid basis for studying various aspects of computability and complexity in analysis It is the result of an introductory course given for several years and is written in a style suitable for graduate level and senior students in computer science and mathematics Many examples illustrate the new concepts while numerous exercises of varying difficulty extend the material and stimulate readers to work actively on the text Computable Analysis Oliver Aberth, 1980 Handbook of Computability and Complexity in Analysis

Vasco Brattka, Peter Hertling, 2021-06-04 Computable analysis is the modern theory of computability and complexity in analysis that arose out of Turing's seminal work in the 1930s This was motivated by questions such as which real numbers and real number functions are computable and which mathematical tasks in analysis can be solved by algorithmic means Nowadays this theory has many different facets that embrace topics from computability theory algorithmic randomness computational complexity dynamical systems fractals and analog computers up to logic descriptive set theory constructivism and reverse mathematics In recent decades computable analysis has invaded many branches of analysis and researchers have studied computability and complexity questions arising from real and complex analysis functional analysis and the theory of differential equations up to geometric measure theory and topology This handbook represents the first coherent cross section through most active research topics on the more theoretical side of the field It contains 11 chapters grouped into parts on computability in analysis complexity dynamics and randomness and constructivity logic and descriptive complexity All chapters are written by leading experts working at the cutting edge of the respective topic Researchers and graduate students in the areas of theoretical computer science and mathematical logic will find systematic introductions into many branches of computable analysis and a wealth of information and references that will help them to navigate the modern research literature in this field **PI-0-1 Classes in Computable Analysis and Topology**

Joseph Stephen Miller, 2002 **Computability in Analysis and Physics** Marian B. Pour-El, J. Ian Richards, 2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again In this volume the first publication in the Perspectives in Logic series Pour-El and Richards present the first graduate level treatment of computable analysis within the tradition of classical mathematical reasoning The book focuses on the computability or noncomputability of standard processes in analysis and physics Topics include classical analysis Hilbert and

Banach spaces bounded and unbounded linear operators eigenvalues eigenvectors and equations of mathematical physics The work is self contained and although it is intended primarily for logicians and analysts it should also be of interest to researchers and graduate students in physics and computer science Computability in Analysis and Physics Marian B. Pour-El, J. Ian Richards, 2017-03-02 The first graduate level treatment of computable analysis within the tradition of classical mathematical reasoning **Three Problems in Computable Analysis** Jonathan Eric Tennenhauser, 1994 *A Simple Introduction to Computable Analysis* Klaus Weihrauch, 2017 **Computable Structure Theory** Rodney G. Downey, Alexander Melnikov, 2025-08-21 This is the first book which gives a unified theory for countable and uncountable computable structures The work treats computable linear orderings graphs groups and Boolean algebras unified with computable metric and Banach spaces profinite groups and the like Further it provides the first account of these that exploits effective versions of dualities such as Stone and Pontryagin dualities The themes are effective classification and enumeration Topics and features if supportLists endif Delivers a self contained gentle introduction to priority arguments directly applying them in algebraic contexts if supportLists endif Includes extensive exercises that both cement and amplify the materials if supportLists endif Provides complete introduction to the basics of computable analysis particularly in the context of computable structures if supportLists endif Offers the first monograph treatment of computable Polish groups effective profinite groups via Stone duality and effective abelian groups via Pontryagin duality if supportLists endif Presents the first book treatment of Friedberg enumerations of structures This unique volume is aimed at graduate students and researchers in computability theory as well as mathematicians seeking to understand the algorithmic content of structure theory Being self contained it provides ample opportunity for self study Computable Analysis Stanisław Mazur, 1963 **Computable Calculus** Oliver Aberth, 2001-06-04 Computable Calculus treats the fundamental topic of calculus in a novel way that is more in tune with today s computer age Comprising 11 chapters and an accompanying CD ROM the book presents mathematical analysis that has been created to deal with constructively defined concepts The book s show your work approach makes it easier to understand the pitfalls of various computations and more importantly how to avoid these pitfalls The accompanying CD ROM has self contained programs that interact with the text providing for easy grasp of the new concepts and enabling readers to write their own demonstration programs Contains software on CD ROM The accompanying software demonstrates through simulation and exercises how each concept of calculus can be associated with a program for the ideal computer Using this software readers will be able to write their own demonstration programs **New Computational Paradigms** S.B. Cooper, Benedikt Löwe, Andrea Sorbi, 2007-11-28 This superb exposition of a complex subject examines new developments in the theory and practice of computation from a mathematical perspective with topics ranging from classical computability to complexity from biocomputing to quantum computing This book is suitable for researchers and graduate students in mathematics philosophy and computer science with a special interest in logic and foundational issues Most useful

to graduate students are the survey papers on computable analysis and biological computing Logicians and theoretical physicists will also benefit from this book Aspects of Computable Analysis : a Thesis Submitted to the Victoria University of Wellington in Fulfilment of the Requirements for the Degree of Master of Science in Mathematics Michelle Porter,2016 Computable analysis has been well studied ever since Turing famously formalised the computable reals and computable real valued function in 1936 However analysis is a broad subject and there still exist areas that have yet to be explored For instance Sierpinski proved that every real valued function $R: \mathbb{R} \rightarrow \mathbb{R}$ is the limit of a sequence of Darboux functions This is an intriguing result and the complexity of these sequences has been largely unstudied Similarly the Blaschke Selection Theorem closely related to the Bolzano Weierstrass Theorem has great practical importance but has not been considered from a computability theoretic perspective The two main contributions of this thesis are to provide some new simple proofs of fundamental classical results highlighting the role of Δ^0_1 classes and to use tools from effective topology to analyse the Darboux property particularly a result by Sierpinski and the Blaschke Selection Theorem This thesis focuses on classical computable analysis It does not make use of effective measure theory From Constructive Mathematics to Computable Analysis Via the Realizability Interpretation Peter Lietz,2004 **Logic, Computation, Hierarchies** Vasco Brattka,Hannes Diener,Dieter Spreen,2014-09-04 Published in honor of Victor L Selivanov the 17 articles collected in this volume inform on the latest developments in computability theory and its applications in computable analysis descriptive set theory and topology and the theory of omega languages as well as non classical logics such as temporal logic and paraconsistent logic This volume will be of interest to mathematicians and logicians as well as theoretical computer scientists **Computability and Complexity in Analysis** Jens Blanck,Vasco Brattka,2001-05-23 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Computability and Complexity in Analysis CCA 2000 held in Swansea UK in September 2000 The 23 revised full papers presented together with a report on a competition of exact real arithmetic systems were carefully selected from 28 papers accepted for presentation during the workshop The book presents a cross section on current research on computability and complexity in analysis The Coincidence Problem in Computable Analysis Matthias Schröder,2016 Topics in Algorithmic Randomness and Computable Analysis Jason Rute,2013 **Computability** Douglas S. Bridges,1994-01-14 Computability A Mathematical Sketchbook is a concise rigorous introduction to the theory of computation Using Turing machines as models of computers the author develops major themes of computability theory culminating in a systematic account of Blum's abstract complexity measures One of the book's unique aspects is the inclusion of a chapter on computable real numbers and elementary computable analysis Exercises and solutions form an integral part of the material The book is suitable for self study and provides excellent course materials for senior and graduate level students in mathematics and computer science **Computability in Analysis and Physics** Marian Boykan Pour-El,Ian Richards,2016 Since their inception the Perspectives in Logic and Lecture Notes in Logic series

have published seminal works by leading logicians. Many of the original books in the series have been unavailable for years but they are now in print once again. In this volume the first publication in the Perspectives in Logic series, Pour El and Richards present the first graduate level treatment of computable analysis within the tradition of classical mathematical reasoning. The book focuses on the computability or noncomputability of standard processes in analysis and physics. Topics include classical analysis, Hilbert and Banach spaces, bounded and unbounded linear operators, eigenvalues, eigenvectors, and equations of mathematical physics. The work is self-contained and although it is intended primarily for logicians and analysts, it should also be of interest to researchers and graduate students in physics and computer science.

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