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A Mathematical Sketchbook

Computability A Mathematical Sketchbook

Amilcar Sernadas,Cristina Sernadas,Joao Rasga

Computability A Mathematical Sketchbook:

   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** Douglas S. Bridges,2013-07-13 Aimed at mathematicians and computer scientists who will only be exposed to one course in this area Computability A Mathematical Sketchbook provides a brief but rigorous introduction to the abstract theory of computation sometimes also referred to as recursion theory It develops major themes in computability theory such as Rice s theorem and the recursion theorem and provides a systematic account of Blum s complexity theory as well as an introduction to the theory of computable real numbers and functions The book is intended as a university text but it may also be used for self study appropriate exercises and solutions are included   **Computability** Douglas S. Bridges,1994   **Computable Economics** Kumaraswamy Velupillai,2000 In the field of economic analysis computability in the formation of economic hypotheses is seen as the way forward In this book Professor Velupillai implements a theoretical research program along these lines Choice theory learning rational expectations equlibria the persistence of adaptive behavior arithmetical games aspects of production theory and economic dynamics are given recursion theoretic i e computable interpretations   **Geometric Group Theory** Clara Löh,2017-12-19 Inspired by classical geometry geometric group theory has in turn provided a variety of applications to geometry topology group theory number theory and graph theory This carefully written textbook provides a rigorous introduction to this rapidly evolving field whose methods have proven to be powerful tools in neighbouring fields such as geometric topology Geometric group theory is the study of finitely generated groups via the geometry of their associated Cayley graphs It turns out that the essence of the geometry of such groups is captured in the key notion of quasi isometry a large scale version of isometry whose invariants include growth types curvature conditions boundary constructions and amenability This book covers the foundations of quasi geometry of groups at an advanced undergraduate level The subject is illustrated by many elementary examples outlooks on applications as well as an extensive collection of exercises

   Randomness & Undecidability in Physics Karl Svozil,1993 Recent findings in the computer sciences discrete mathematics formal logics and metamathematics have opened up a royal road for the investigation of undecidability and randomness in physics A translation of these formal concepts yields a fresh look into diverse features of physical modelling such as quantum complementarity and the measurement problem but also stipulates questions related to the necessity of the assumption of continua Conversely any computer may be perceived as a physical system not only in the immediate sense of

the physical properties of its hardware Computers are a medium to virtual realities The foreseeable importance of such virtual realities stimulates the investigation of an inner description a virtual physics of these universes of computation Indeed one may consider our own universe as just one particular realisation of an enormous number of virtual realities most of them awaiting discovery One motive of this book is the recognition that what is often referred to as randomness in physics might actually be a signature of undecidability for systems whose evolution is computable on a step by step basis To give a flavour of the type of questions envisaged Consider an arbitrary algorithmic system which is computable on a step by step basis Then it is in general impossible to specify a second algorithmic procedure including itself which by experimental input output analysis is capable of finding the deterministic law of the first system But even if such a law is specified beforehand it is in general impossible to predict the system behaviour in the distant future In other words no speedup or computational shortcut is available In this approach classical paradoxes can be formally translated into no go theorems concerning intrinsic physical perception It is suggested that complementarity can be modelled by experiments on finite automata where measurements of one observable of the automaton destroys the possibility to measure another observable of the same automaton and it vice versa Besides undecidability a great part of the book is dedicated to a formal definition of randomness and entropy measures based on algorithmic information theory **A Mathematical Primer on Computability** Amilcar Sernadas,Cristina Sernadas,Joao Rasga,2018-11-07 The book provides a self contained introduction to computability theory for advanced undergraduate or early graduate students of mathematics and computer science The technical material is illustrated with plenty of examples problems with fully worked solutions as well as a range of proposed exercises Part I is centered around fundamental computability notions and results starting with the pillar concepts of computational model an abstract high level programming language computable function decidable and listable set proper universal function decision problem and the reduction technique for transferring decidability and listability properties The essential results namely Rice s Theorem Rice Shapiro s Theorem Rice Shapiro McNaughton Myhill s Theorem as well as Rogers Theorem and the Recursion Theorem are presented and illustrated Many to one reducibility and many to one degrees are investigated A short introduction to computation with oracles is also included Computable as well as non computable operators are introduced as well as monotonic and finitary operators The relationship between them is discussed in particular via Myhill Shepherdson s Theorem Kleene s Least Fixed Point Theorem is also presented Finally Part I terminates with a briefi ng on the Turing computational model Turing reducibility and Turing degrees Part II of the book concentrates on applications of computability in several areas namely in logic undecidability of arithmetic satisfiability in propositional logic decidability in modal logic Euclidean geometry graphs and Kolmogorov complexity Nevertheless no previous knowledge of these subjects is required The essential details for understanding the applications are provided **The Nonlinear World** Yoshitsugu Oono,2012-10-30 The most important characteristic of the world filled with nonlinearity is the existence of scale interference disparate space time scales

interfere with each other Thus the effects of unknowable scales invade the world that we can observe directly This leads to various peculiar phenomena such as chaos critical phenomena and complex biological phenomena among others Conceptual analysis and phenomenology are the keys to describe and understand phenomena that are subject to scale interference because precise description of unfamiliar phenomena requires precise concepts and their phenomenological description The book starts with an illustration of conceptual analysis in terms of chaos and randomness and goes on to explain renormalization group philosophy as an approach to phenomenology Then abduction is outlined as a way to express what we have understood about the world The book concludes with discussions on how we can approach genuinely complex phenomena including biological phenomena The main target of this volume is young people who have just started to appreciate the world seriously The author also wishes the book to be helpful to those who have been observing the world but who wish to appreciate it afresh from a different angle *Invariant Descriptive Set Theory* Su Gao,2008-09-03 Presents Results from a Very Active Area of ResearchExploring an active area of mathematics that studies the complexity of equivalence relations and classification problems Invariant Descriptive Set Theory presents an introduction to the basic concepts methods and results of this theory It brings together techniques from various areas of mathem **Recursive Model Theory** ,1998-11-30 Recursive Model Theory **The Foundational Debate** Werner DePauli-Schimanovich,Eckehart Köhler,F. Stadler,2013-03-14 Constructibility and complexity play central roles in recent research in computer science mathematics and physics For example scientists are investigating the complexity of computer programs constructive proofs in mathematics and the randomness of physical processes But there are different approaches to the explication of these concepts This volume presents important research on the state of this discussion especially as it refers to quantum mechanics This foundational debate in computer science mathematics and physics was already fully developed in 1930 in the Vienna Circle A special section is devoted to its real founder Hans Hahn referring to his contribution to the history and philosophy of science The documentation section presents articles on the early Philipp Frank and on the Vienna Circle in exile Reviews cover important recent literature on logical empiricism and related topics *Mathematical Foundations of Computer Science* ,2005 **The Bulletin of Mathematics Books** ,1992 *Notices of the American Mathematical Society* American Mathematical Society,1993 *On the First-Order Theory of Real Exponentiation* Tamara Servi,2008-03-19 The first order theory of real exponentiation has been studied by many mathematicians in the last fifty years This book presents the results obtained so far in this area and improves and refines them **On Recursive Bounds for the Exceptional Values in Speed-up** Douglas S. Bridges,Cristian Calude,1993 Quantum Groups Christian Kassel,1995 This book provides an introduction to the theory of quantum groups with emphasis on the spectacular connections with knot theory and on Drinfeld s recent fundamental contributions The first part presents in detail the quantum groups attached to SL subscript 2 as well as the basic concepts of the theory of Hopf algebras Part Two focuses on Hopf algebras that produce solutions of

the Yang Baxter equation and on Drinfeld s quantum double construction In the following part we construct isotopy invariants of knots and links in the three dimensional Euclidean space using the language of tensor categories The last part is an account of Drinfeld s elegant treatment of the monodromy of the Knizhnik Zamolodchikov equations culminating in the construction of Kontsevich s universal knot invariant   Mathematical Reviews ,1994   **Choice** ,1994   Analele Ştiinţifice Ale Universitătii "Al. I. Cuza" Din Iaşi ,1992

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