

Die Grundlagen der
rekursiven Funktionen in Turing-Maschinen
Modul 1.21

Hans Herrmann

Enumerability · Decidability Computability

Enumerability Decidability Computability An Introduction To The Theory Of Recursive Functions

Dan A Simovici



Enumerability Decidability Computability An Introduction To The Theory Of Recursive Functions:

Enumerability · Decidability Computability Hans Hermes, 2012-12-06 Once we have accepted a precise replacement of the concept of algorithm it becomes possible to attempt the problem whether there exist well defined collections of problems which cannot be handled by algorithms and if that is the case to give concrete cases of this kind Many such investigations were carried out during the last few decades The undecidability of arithmetic and other mathematical theories was shown further the unsolvability of the word problem of group theory Many mathematicians consider these results and the theory on which they are based to be the most characteristic achievements of mathematics in the first half of the twentieth century If we grant the legitimacy of the suggested precise replacements of the concept of algorithm and related concepts then we can say that the mathematicians have shown by strictly mathematical methods that there exist mathematical problems which cannot be dealt with by the methods of calculating mathematics In view of the important role which mathematics plays today in our conception of the world this fact is of great philosophical interest Post speaks of a natural law about the limitations of the mathematicizing power of Homo Sapiens Here we also find a starting point for the discussion of the question what the actual creative activity of the mathematician consists in In this book we shall give an introduction to the theory of algorithms

Enumerability, Decidability, Computability Hans Hermes, 2013-03-14 The task of developing algorithms to solve problems has always been considered by mathematicians to be an especially interesting and important one Normally an algorithm is applicable only to a narrowly limited group of problems Such is for instance the Euclidean algorithm which determines the greatest common divisor of two numbers or the well known procedure which is used to obtain the square root of a natural number in decimal notation The more important these special algorithms are all the more desirable it seems to have algorithms of a greater range of applicability at one's disposal Throughout the centuries attempts to provide algorithms applicable as widely as possible were rather unsuccessful It was only in the second half of the last century that the first appreciable advance took place Namely an important group of the inferences of the logic of predicates was given in the form of a calculus Here the Boolean algebra played an essential pioneer role One could now perhaps have conjectured that all mathematical problems are solvable by algorithms However well known yet unsolved problems like the word problem of group theory or Hilbert's tenth problem which considers the question of solvability of Diophantine equations were warnings to be careful Nevertheless the impulse had been given to search for the essence of algorithms Leibniz already had inquired into this problem but without success

Mathematical Logic Joel W. Robbin, 2006-07-07 This self contained text will appeal to readers from diverse fields and varying backgrounds Topics include 1st order recursive arithmetic 1st and 2nd order logic and the arithmetization of syntax Numerous exercises some solutions 1969 edition

Turing Computability Robert I. Soare, 2016-06-20 Turing's famous 1936 paper introduced a formal definition of a computing machine a Turing machine This model led to both the development of actual computers

and to computability theory the study of what machines can and cannot compute This book presents classical computability theory from Turing and Post to current results and methods and their use in studying the information content of algebraic structures models and their relation to Peano arithmetic The author presents the subject as an art to be practiced and an art in the aesthetic sense of inherent beauty which all mathematicians recognize in their subject Part I gives a thorough development of the foundations of computability from the definition of Turing machines up to finite injury priority arguments Key topics include relative computability and computably enumerable sets those which can be effectively listed but not necessarily effectively decided such as the theorems of Peano arithmetic Part II includes the study of computably open and closed sets of reals and basis and nonbasis theorems for effectively closed sets Part III covers minimal Turing degrees Part IV is an introduction to games and their use in proving theorems Finally Part V offers a short history of computability theory The author has honed the content over decades according to feedback from students lecturers and researchers around the world Most chapters include exercises and the material is carefully structured according to importance and difficulty The book is suitable for advanced undergraduate and graduate students in computer science and mathematics and researchers engaged with computability and mathematical logic

Mathematical Logic and Model Theory Alexander Prestel, Charles N. Delzell, 2011-08-21 Mathematical Logic and Model Theory A Brief Introduction offers a streamlined yet easy to read introduction to mathematical logic and basic model theory It presents in a self contained manner the essential aspects of model theory needed to understand model theoretic algebra As a profound application of model theory in algebra the last part of this book develops a complete proof of Ax and Kochen's work on Artin's conjecture about Diophantine properties of p -adic number fields The character of model theoretic constructions and results differ quite significantly from that commonly found in algebra by the treatment of formulae as mathematical objects It is therefore indispensable to first become familiar with the problems and methods of mathematical logic Therefore the text is divided into three parts an introduction into mathematical logic Chapter 1 model theory Chapters 2 and 3 and the model theoretic treatment of several algebraic theories Chapter 4 This book will be of interest to both advanced undergraduate and graduate students studying model theory and its applications to algebra It may also be used for self study

The Foundations of Computability Theory Borut Robič, 2020-11-13 This book offers an original and informative view of the development of fundamental concepts of computability theory The treatment is put into historical context emphasizing the motivation for ideas as well as their logical and formal development In Part I the author introduces computability theory with chapters on the foundational crisis of mathematics in the early twentieth century and formalism In Part II he explains classical computability theory with chapters on the quest for formalization the Turing Machine and early successes such as defining incomputable problems c e computably enumerable sets and developing methods for proving incomputability In Part III he explains relative computability with chapters on computation with external help degrees of unsolvability the Turing hierarchy of unsolvability

the class of degrees of unsolvability c e degrees and the priority method and the arithmetical hierarchy Finally in the new Part IV the author revisits the computability Church Turing thesis in greater detail He offers a systematic and detailed account of its origins evolution and meaning he describes more powerful modern versions of the thesis and he discusses recent speculative proposals for new computing paradigms such as hypercomputing This is a gentle introduction from the origins of computability theory up to current research and it will be of value as a textbook and guide for advanced undergraduate and graduate students and researchers in the domains of computability theory and theoretical computer science This new edition is completely revised with almost one hundred pages of new material In particular the author applied more up to date more consistent terminology and he addressed some notational redundancies and minor errors He developed a glossary relating to computability theory expanded the bibliographic references with new entries and added the new part described above and other new sections Language, Logic and Method Robert S. Cohen,Marx W.

Wartofsky,2012-12-06 Fundamental problems of the uses of formal techniques and of natural and instrumental practices have been raised again and again these past two decades in many quarters and from varying viewpoints We have brought a number of quite basic studies of these issues together in this volume not linked conceptually nor by any rigorously defined problematic but rather simply some of the most interesting and even provocative of recent research accomplishments Most of these papers are derived from the Boston Colloquium for the Philosophy of Science during 1973-80 the two exceptions being those of Karel Berka on scales of measurement and A A Zinoviev on a non traditional theory of quantifiers Just how intriguing these results or conjectures seem to us may be seen from some brief quotations 1 Judson Webb the abstract machine concept has many of the appropriate kinds of properties for modelling living reproducing rule following self reflecting accident prone and lucky creatures the a priori logical results relevant to the abstract machine concept above all Godel's could not conceivably have turned out any better for the mechanist 2 M L Dalla Chiara modal interpretation of quantum logic shows clearly that it possesses a logical meaning which is quite independent of quantum mechanics 3 Isaac Levi as against Peirce and Popper infallibilism is consistent with corrigibilism and a view which respects avoidance of error is an important desideratum for science *Decidability of Logical Theories and Their Combination* João Rasga,Cristina Sernadas,2020-10-20 This textbook provides a self contained introduction to decidability of first order theories and their combination The technical material is presented in a systematic and universal way and illustrated with plenty of examples and a range of proposed exercises After an overview of basic first order logic concepts the authors discuss some model theoretic notions like embeddings diagrams and elementary substructures The text then goes on to explore an applicable way to deduce logical consequences from a given theory and presents sufficient conditions for a theory to be decidable The chapters that follow focus on quantifier elimination decidability of the combination of first order theories and the basics of computability theory The inclusion of a chapter on Gentzen calculus cut elimination and Craig interpolation as well as a

chapter on combination of theories and preservation of decidability help to set this volume apart from similar books in the field Decidability of Logical Theories and their Combination is ideal for graduate students of Mathematics and is equally suitable for Computer Science Philosophy and Physics students who are interested in gaining a deeper understanding of the subject The book is also directed to researchers that intend to get acquainted with first order theories and their combination

Introduction to Mathematical Logic Hans Hermes, 2013-06-29 This book grew out of lectures It is intended as an introduction to classical two valued predicate logic The restriction to classical logic is not meant to imply that this logic is intrinsically better than other non classical logics however classical logic is a good introduction to logic because of its simplicity and a good basis for applications because it is the foundation of classical mathematics and thus of the exact sciences which are based on it The book is meant primarily for mathematics students who are already acquainted with some of the fundamental concepts of mathematics such as that of a group It should help the reader to see for himself the advantages of a formalisation The step from the everyday language to a formalised language which usually creates difficulties is discussed and practised thoroughly The analysis of the way in which basic mathematical structures are approached in mathematics leads in a natural way to the semantic notion of consequence One of the substantial achievements of modern logic has been to show that the notion of consequence can be replaced by a provably equivalent notion of derivability which is defined by means of a calculus Today we know of many calculi which have this property

Field Arithmetic Michael D. Fried, Moshe Jarden, 2023-06-12 This book uses algebraic tools to study the elementary properties of classes of fields and related algorithmic problems The first part covers foundational material on infinite Galois theory profinite groups algebraic function fields in one variable and plane curves It provides complete and elementary proofs of the Chebotarev density theorem and the Riemann hypothesis for function fields together with material on ultraproducts decision procedures the elementary theory of algebraically closed fields undecidability and nonstandard model theory including a nonstandard proof of Hilbert's irreducibility theorem The focus then turns to the study of pseudo algebraically closed PAC fields related structures and associated decidability and undecidability results PAC fields fields K with the property that every absolutely irreducible variety over K has a rational point first arose in the elementary theory of finite fields and have deep connections with number theory This fourth edition substantially extends updates and clarifies the previous editions of this celebrated book and includes a new chapter on Hilbertian subfields of Galois extensions Almost every chapter concludes with a set of exercises and bibliographical notes An appendix presents a selection of open research problems Drawing from a wide literature at the interface of logic and arithmetic this detailed and self contained text can serve both as a textbook for graduate courses and as an invaluable reference for seasoned researchers **Artificial**

intelligence - When do machines take over? Klaus Mainzer, 2019-10-14 Everybody knows them Smartphones that talk to us wristwatches that record our health data workflows that organize themselves automatically cars airplanes and drones that

control themselves traffic and energy systems with autonomous logistics or robots that explore distant planets are technical examples of a networked world of intelligent systems Machine learning is dramatically changing our civilization We rely more and more on efficient algorithms because otherwise we will not be able to cope with the complexity of our civilizing infrastructure But how secure are AI algorithms This challenge is taken up in the 2nd edition Complex neural networks are fed and trained with huge amounts of data big data The number of necessary parameters explodes exponentially Nobody knows exactly what is going on in these black boxes In machine learning we need more explainability and accountability of causes and effects in order to be able to decide ethical and legal questions of responsibility e g in autonomous driving or medicine Besides causal learning we also analyze procedures of tests and verification to get certified AI programs Since its inception AI research has been associated with great visions of the future of mankind It is already a key technology that will decide the global competition of social systems Artificial Intelligence and Responsibility is another central supplement to the 2nd edition How should we secure our individual liberty rights in the AI world This book is a plea for technology design AI must prove itself as a service in society

Edsger Wybe Dijkstra Krzysztof R. Apt, Tony Hoare, 2022-07-14 Edsger Wybe Dijkstra 1930 2002 was one of the most influential researchers in the history of computer science making fundamental contributions to both the theory and practice of computing Early in his career he proposed the single source shortest path algorithm now commonly referred to as Dijkstra's algorithm He wrote with Jaap Zonneveld the first ALGOL 60 compiler and designed and implemented with his colleagues the influential THE operating system Dijkstra invented the field of concurrent algorithms with concepts such as mutual exclusion deadlock detection and synchronization A prolific writer and forceful proponent of the concept of structured programming he convincingly argued against the use of the Go To statement In 1972 he was awarded the ACM Turing Award for fundamental contributions to programming as a high intellectual challenge for eloquent insistence and practical demonstration that programs should be composed correctly not just debugged into correctness for illuminating perception of problems at the foundations of program design Subsequently he invented the concept of self stabilization relevant to fault tolerant computing He also devised an elegant language for nondeterministic programming and its weakest precondition semantics featured in his influential 1976 book A Discipline of Programming in which he advocated the development of programs in concert with their correctness proofs In the later stages of his life he devoted much attention to the development and presentation of mathematical proofs providing further support to his long held view that the programming process should be viewed as a mathematical activity In this unique new book 31 computer scientists including five recipients of the Turing Award present and discuss Dijkstra's numerous contributions to computing science and assess their impact Several authors knew Dijkstra as a friend teacher lecturer or colleague Their biographical essays and tributes provide a fascinating multi author picture of Dijkstra from the early days of his career up to the end of his life

Elements of Mathematics John Stillwell, 2017-11-07 An exciting look at the world of elementary mathematics

Elements of Mathematics takes readers on a fascinating tour that begins in elementary mathematics but as John Stillwell shows this subject is not as elementary or straightforward as one might think Not all topics that are part of today s elementary mathematics were always considered as such and great mathematical advances and discoveries had to occur in order for certain subjects to become elementary Stillwell examines elementary mathematics from a distinctive twenty first century viewpoint and describes not only the beauty and scope of the discipline but also its limits From Gaussian integers to propositional logic Stillwell delves into arithmetic computation algebra geometry calculus combinatorics probability and logic He discusses how each area ties into more advanced topics to build mathematics as a whole Through a rich collection of basic principles vivid examples and interesting problems Stillwell demonstrates that elementary mathematics becomes advanced with the intervention of infinity Infinity has been observed throughout mathematical history but the recent development of reverse mathematics confirms that infinity is essential for proving well known theorems and helps to determine the nature contours and borders of elementary mathematics Elements of Mathematics gives readers from high school students to professional mathematicians the highlights of elementary mathematics and glimpses of the parts of math beyond its boundaries

Introduction To The Theory Of Formal Languages Dan A Simovici,2024-05-17 Formal language theory is a theoretical discipline in computer science that plays a foundational role in areas such as compilers design programming language theory information transmission computational biology etc This unique volume is a succinct introduction to formal language theory suitable for an one semester course The main focus is on Chomsky s hierarchy of classes of languages ranging from regular languages to context free context sensitive and recursively enumerable languages These classes are presented using both generative methods grammars as well as various analytical methods including finite automata pushdown and linearly bounded automata and Turing machine The useful reference text contains a large number of exercises of various degree of difficulties and is intended as a textbook for an upper level undergraduate or a graduate course in formal languages

Systems of Logic Norman M. Martin,1989-07-28 This advanced study of systems of propositional logic offers a comprehensive account of a wide variety of logical systems and encourages students to take a critical stance toward the subject A great variety of systems and subsystems are defined and compared as regards their deductive power and relation to their model theory Special attention is given to the weakenings of classical logic and a more refined treatment of modal logic is presented

Computability Theory Neil D. Jones,2014-06-20 Computability Theory An Introduction provides information pertinent to the major concepts constructions and theorems of the elementary theory of computability of recursive functions This book provides mathematical evidence for the validity of the Church Turing thesis Organized into six chapters this book begins with an overview of the concept of effective process so that a clear understanding of the effective computability of partial and total functions is obtained This text then introduces a formal development of the equivalence of Turing machine computability enumerability and decidability with other formulations

Other chapters consider the formulas of the predicate calculus systems of recursion equations and Post's production systems. This book discusses as well the fundamental properties of the partial recursive functions and the recursively enumerable sets. The final chapter deals with different formulations of the basic ideas of computability that are equivalent to Turing computability. This book is a valuable resource for undergraduate or graduate students. **Bulletin of the American**

Mathematical Society American Mathematical Society, 1966 **Use of Mathematical Literature** A.R.

Dorling, 2014-05-20 Use of Mathematical Literature discusses the bibliographic concerns of mathematical literature. The book is comprised of 14 chapters that cover characteristics of mathematical literature and provide reviews of some of the major literature in various mathematical fields. The text first discusses the role of the literature in mathematics and then proceeds to tackling major organizations, journals, and reference materials. Next, the book provides critical accounts of the major literature in various mathematical fields such as combinatorics, topology, and mathematical programming. The book will be of great use to students, practitioners, and researchers of mathematics. Other professions handling math literature such as teachers, librarians, and translators will also find this book invaluable. **Enumerability, Decidability, Computability**

Hans Hermes, 2014-01-15 **Computability Theory** Herbert B. Enderton, 2010-12-30 Computability Theory: An Introduction to Recursion Theory provides a concise, comprehensive, and authoritative introduction to contemporary computability theory, techniques, and results. The basic concepts and techniques of computability theory are placed in their historical, philosophical, and logical context. This presentation is characterized by an unusual breadth of coverage and the inclusion of advanced topics not to be found elsewhere in the literature at this level. The text includes both the standard material for a first course in computability and more advanced looks at degree structures, forcing, priority methods, and determinacy. The final chapter explores a variety of computability applications to mathematics and science. Computability Theory is an invaluable text, reference, and guide to the direction of current research in the field. Nowhere else will you find the techniques and results of this beautiful and basic subject brought alive in such an approachable way. Frequent historical information is presented throughout. More extensive motivation for each of the topics than other texts currently available. Connects with topics not included in other textbooks such as complexity theory.

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