

N. J. Cutland

Computability

**An introduction
to recursive function
theory**

Computability An Introduction To Recursive Function Theory

Nigel Cutland



Computability An Introduction To Recursive Function Theory:

Computability Nigel Cutland, 1980-06-19 What can computers do in principle What are their inherent theoretical limitations The theoretical framework which enables such questions to be answered has been developed over the last fifty years from the idea of a computable function a function whose values can be calculated in an automatic way

Computability Nigel J. Cutland, 1980 *Computability* Nigel Cutland, 2000 **Computability** Nigel J. Cutland, 1980

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 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 *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 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

Computability Theory Rebecca Weber, 2012 What can we compute even with unlimited resources Is everything within reach Or are computations necessarily drastically limited not just in practice but theoretically These questions are at the heart of computability theory The goal of this book is to give the reader a firm grounding in the fundamentals of computability theory and an overview of currently active areas of research such as reverse mathematics and algorithmic randomness Turing machines and partial recursive functions are explored in detail and vital tools and concepts including coding uniformity and diagonalization are described explicitly From there the material continues with universal machines the halting problem parametrization and the recursion theorem and thence to computability for sets enumerability and Turing reduction and degrees A few more advanced topics round out the book before the chapter on areas of research The text is designed to be self contained with an entire chapter of preliminary material including relations recursion induction and logical and set notation and operators That background along with ample explanation examples exercises and suggestions for further reading make this book ideal for independent study or courses with few prerequisites

Computability B. Jack Copeland, Carl J. Posy, Oron Shagrir, 2015-01-30 Computer scientists mathematicians and philosophers discuss the conceptual foundations of the notion of computability as well as recent theoretical developments In the 1930s a series of seminal works published by Alan Turing Kurt G del Alonzo Church and others established the theoretical basis for computability This work advancing precise characterizations of effective algorithmic computability was the culmination of intensive investigations into the foundations of mathematics In the decades since the theory of computability has moved to the center of discussions in philosophy computer science and cognitive science In this volume distinguished computer scientists mathematicians logicians and philosophers consider the conceptual foundations of computability in light of our modern understanding Some chapters focus on the pioneering work by Turing G del and Church including the Church Turing thesis and G del's response to Church's and Turing's proposals Other chapters cover more recent technical developments including computability over

the real's influence on mathematical logic and on recursion theory and the impact of work by Turing and Emil Post on our theoretical understanding of online and interactive computing and others relate computability and complexity to issues in the philosophy of mind the philosophy of science and the philosophy of mathematics Contributors Scott Aaronson Dorit Aharonov B Jack Copeland Martin Davis Solomon Feferman Saul Kripke Carl J Posy Hilary Putnam Oron Shagrir Stewart Shapiro Wilfried Sieg Robert I Soare Umesh V Vazirani **Handbook of Computability Theory** E.R. Griffor,1999-10-01

The chapters of this volume all have their own level of presentation The topics have been chosen based on the active research interest associated with them Since the interest in some topics is older than that in others some presentations contain fundamental definitions and basic results while others relate very little of the elementary theory behind them and aim directly toward an exposition of advanced results Presentations of the latter sort are in some cases restricted to a short survey of recent results due to the complexity of the methods and proofs themselves Hence the variation in level of presentation from chapter to chapter only reflects the conceptual situation itself One example of this is the collective efforts to develop an acceptable theory of computation on the real numbers The last two decades has seen at least two new definitions of effective operations on the real numbers

Unveiling the Magic of Words: A Overview of "**Computability An Introduction To Recursive Function Theory**"

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