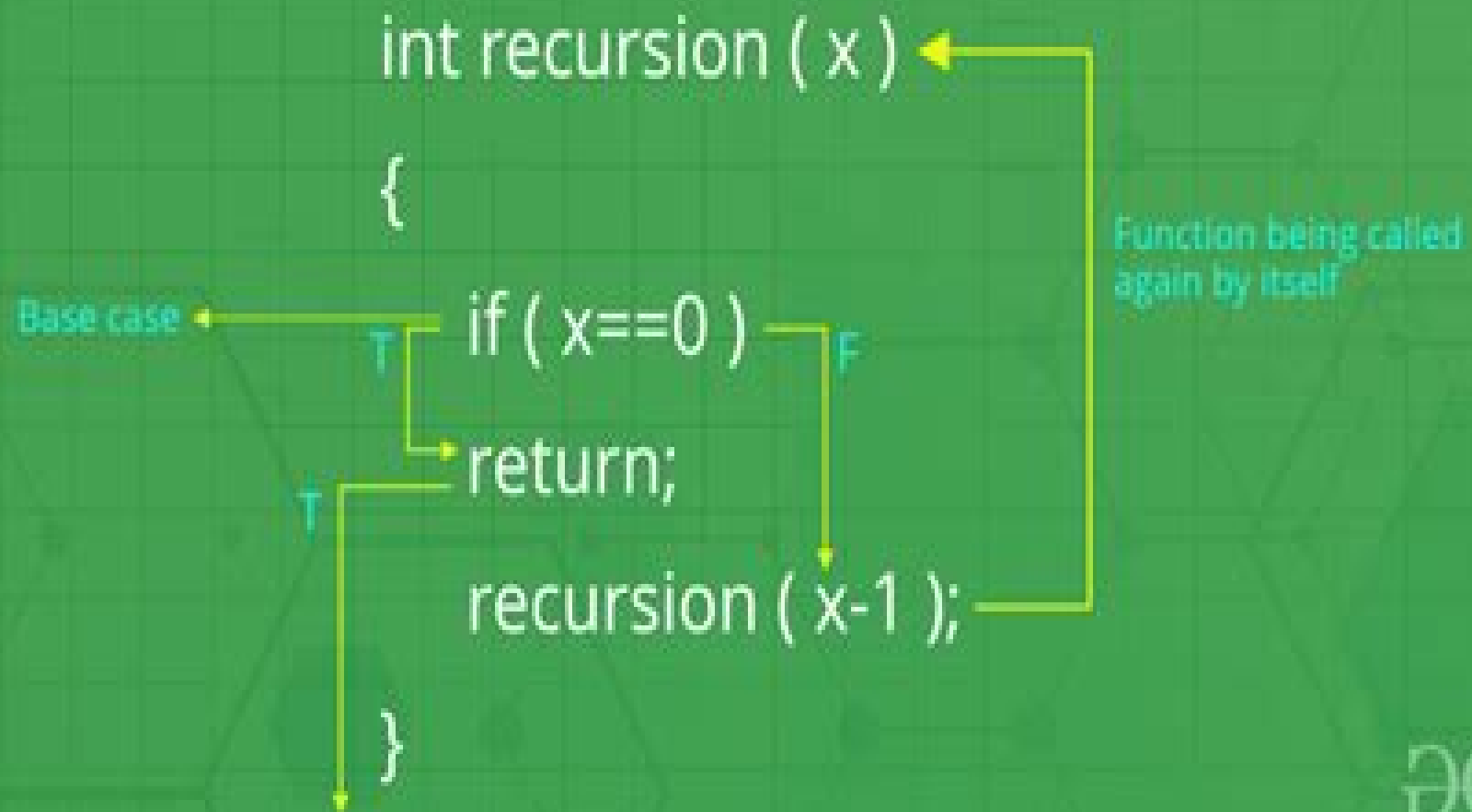


Recursive Functions



Recursive Function Theory

Shivam Saxena



Recursive Function Theory:

Computability Nigel Cutland, 1980-06-19 What can computers do in principle What are their inherent theoretical limitations These are questions to which computer scientists must address themselves 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 intuitively a function whose values can be calculated in an effective or automatic way This book is an introduction to computability theory or recursion theory as it is traditionally known to mathematicians Dr Cutland begins with a mathematical characterisation of computable functions using a simple idealised computer a register machine after some comparison with other characterisations he develops the mathematical theory including a full discussion of non computability and undecidability and the theory of recursive and recursively enumerable sets The later chapters provide an introduction to more advanced topics such as Gödel's incompleteness theorem degrees of unsolvability the Recursion theorems and the theory of complexity of computation Computability is thus a branch of mathematics which is of relevance also to computer scientists and philosophers Mathematics students with no prior knowledge of the subject and computer science students who wish to supplement their practical expertise with some theoretical background will find this book of use and interest **An Early History of Recursive Functions and Computability** Rod Adams, 2011 Traces the development of recursive functions from their origins in the late nineteenth century to the mid 1930s with particular emphasis on the work and influence of Kurt Gödel **Theory of Recursive Functions and Effective Computability** Hartley Rogers, 1987-04-22 Reprint of the 1967 edition **Computability** Nigel J. Cutland, 1980 Recursive function theory Symposium on Recursive Function Theory, New York, 1961, 1962 Recursion on the Countable Functionals D. Normann, 2006-12-08 **Recursive Function Theory** Robin O. Gandy, 1967 **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 **Recursive Function Theory** ,1962 *General Recursion Theory* Jens E. Fenstad,2017-03-02 This volume presents a unified and coherent account of the many and various parts of general recursion theory [Recursive Functions in Computer Theory](#) Rózsa Péter,1981 **Computational Foundations of Basic Recursive Function Theory** Cornell University. Dept. of Computer Science,R. L. Constable,S. F. Smith,1988 The theory of computability or basic recursive function theory as it is often called is usually motivated and developed using Church's Thesis Here we show that there is an alternative computability theory in which some of the basic results on unsolvability become more absolute results on completeness become simpler and many of the central concepts become more abstract In this approach computations are viewed as mathematical objects and the major theorems in recursion theory may be classified according to which axioms about computation are needed to prove them **Recursive Function Theory and Logic** Ann Yasuhara,1971 *Automata Theory, Languages of Machines and Computability* Shivam Saxena,2018-02-05 The book is all about the automata formal language theory and computability Automata theory plays important roles in compilers text processing programming languages hardware designs and artificial intelligence and is the core base of computer science studies The intent is to make automata theory interesting and challenging and break the myth of being a tough topic For that matter topics are covered in an easy to understand manner with the help of elaborative and well described examples For topics which are little complex and fuzzy to understand strategy adopted is to connect the topic with the everyday problems we encounter in order to develop a connective understanding of the topic and get a clear view of the topic Exercise questions are provided with the answers to understand the solution easily The prospective audience for the book are computer science engineering students Computer science scholars and people preparing for competitive exams like GATE UGC NET etc

Linguistics and the Formal Sciences Marcus Tomalin,2006-02-16 The formal sciences particularly mathematics have had a profound influence on the development of linguistics This insightful overview looks at techniques that were introduced in the fields of mathematics logic and philosophy during the twentieth century and explores their effect on the work of various linguists In particular it discusses the foundations crisis that destabilised mathematics at the start of the twentieth century the numerous related movements which sought to respond to this crisis and how they influenced the development of syntactic theory in the 1950s The book concludes by discussing the resulting major consequences for syntactic theory and provides a detailed reassessment of Chomsky's early work at the advent of Generative Grammar Informative and revealing this book will be invaluable to all those working in formal linguistics in particular those interested in its history and development **Concurrency, Compositionality, and Correctness** Dennis Dams,Ulrich Hannemann,Martin Steffen,2010-02-24 This Festschrift volume published in honor of Willem Paul de Roever contains 19 detailed papers written by the friends and colleagues of the honoree all eminent scientists in their own right These are preceded by a detailed bibliography and rounded off at the end of the book with a gallery of photographs The theme under which the papers have

been collected is Concurrency Compositionality and Correctness reflecting the focus of Willem Paul de Roever's research career Topics addressed include model checking computer science and state machines ontology and mereology of domains game theory compiler correctness fair scheduling and encryption algorithms

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

Enzyklopädie Philosophie und Wissenschaftstheorie Jürgen Mittelstraß, 2024-03-15 Die Enzyklopädie Philosophie und Wissenschaftstheorie das größte allgemeine Nachschlagewerk zur Philosophie im deutschsprachigen Raum wurde 1980 begonnen und 1996 mit dem vierten Band abgeschlossen Sie erschien 2005 bis 2018 in einer komplett aktualisierten und erweiterten 8 bändigen Neuauflage die hiermit nun in einer kartonierten Sonderausgabe vorliegt Die Enzyklopädie umfasst in Sach- und Personenartikeln nicht nur den klassischen Bestand des philosophischen Wissens sondern auch die neuere Entwicklung der Philosophie insbesondere in den Bereichen Logik Erkenntnis und Wissenschaftstheorie sowie Sprachphilosophie Zugleich finden Grundlagenreflexionen in den Wissenschaften und deren Geschichte ausführliche Berücksichtigung Die umfassenden Bibliographien und Werkverzeichnisse wurden für die 2. Auflage in allen Artikeln auf den neuesten Stand gebracht

Recursion Theory Joseph R. Shoenfield, 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 Lecture Notes in Logic series Shoenfield gives a clear and focused introduction to recursion theory The fundamental concept of recursion makes the idea of computability accessible to a mathematical analysis thus forming one of the pillars on which

modern computer science rests This introduction is an ideal instrument for teaching and self study that prepares the reader for the study of advanced monographs and the current literature on recursion theory **Theories of Computability**
Nicholas Pippenger, 1997-05-28 A mathematically sophisticated introduction to Turing's theory Boolean functions automata and formal languages

The Enigmatic Realm of **Recursive Function Theory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Recursive Function Theory** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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