

RECHENEN MET DE WISKUNDE

# RECURSIVE FUNCTIONS AND METAMATHEMATICS

PROBLEMS OF COMPLETENESS AND INCOMPLETENESS  
GÖDEL'S THEOREMS

# Recursive Functions And Metamathematics Problems Of Completeness And Decidability Godels Theorems

**Peter Gärdenfors, Jan Wolenski, K.  
Kijania-Placek**



## **Recursive Functions And Metamathematics Problems Of Completeness And Decidability Godel's Theorems:**

Recursive Functions and Metamathematics Roman Murawski, 1999-09-30 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  
*Recursive Functions and Metamathematics* Roman Murawski, 2013-03-14 Recursive Functions and Metamathematics deals with problems of the completeness and decidability of theories using as its main tool the theory of recursive functions This theory is first introduced and discussed Then Gödel's incompleteness theorems are presented together with generalizations strengthenings and the decidability theory The book also considers the historical and philosophical context of these issues and their philosophical and methodological consequences Recent results and trends have been included such as undecidable sentences of mathematical content reverse mathematics All the main results are presented in detail The book is self contained and presupposes only some knowledge of elementary mathematical logic There is an extensive bibliography Readership Scholars and advanced students of logic mathematics philosophy of science

**Attitudes and Changing Contexts** Robert van Rooij, 2006-01-18 In this book the author defends a unified externalists account of propositional attitudes and reference and formalizes this view within possible world semantics He establishes a link between philosophical analyses of intentionality and reference and formal semantic theories of discourse representation and context change The relation between belief change and the semantic analyses of conditional sentences and evidential knowledge and belief desire propositional attitudes is discussed extensively  
Trading Ontology for Ideology L. Decock, 2013-03-09 Willard Van Orman Quine has probably been the most influential th American philosopher of the 20 century His work spans over seven decades and covers many domains in philosophy He has made major contributions to the fields of logic and set theory philosophy of logic and mathematics philosophy of language philosophy of science epistemology and metaphysics Quine's first work in philosophy was in the field of logic His major contributions are the two set theoretic systems NF 1936 and ML 1940 1 These systems were alternatives to the type theory of Principia Mathematica or Zermelo's set theory and are still being studied by 2 mathematicians An indirect contribution to the field of logic is his strong resistance to modal logic Quine's objections to the notions of necessity and analyticity have influenced the development of modal logic Quine has had an enormous influence on philosophy of mathematics When Quine entered philosophy there was a discussion on the foundations of mathematics between the schools of intuitionism formalism and conventionalism Quine soon took issue with Carnap's conventionalism in *Truth by convention* 4 1936 Quine has never joined one of the other schools but has added new elements that are the basic ones of the 5 contemporary schools of nominalism platonism and structuralism Quine has long been in the shadow of Benacerraf and Putnam in this field At the moment there seems to be a renewed interest in Quine's work and most philosophers explicitly refer to Quine's work  
**The Growth of Mathematical Knowledge** Emily Grosholz, Herbert Breger, 2013-04-17 Mathematics has stood as a bridge between the Humanities and the Sciences since the

days of classical antiquity For Plato mathematics was evidence of Being in the midst of Becoming garden variety evidence apparent even to small children and the unphilosophical and therefore of the highest educational significance In the great central similes of The Republic it is the touchstone of intelligibility for discourse and in the Timaeus it provides in an oddly literal sense the framework of nature insuring the intelligibility of the material world For Descartes mathematical ideas had a clarity and distinctness akin to the idea of God as the fifth of the Meditations makes especially clear Cartesian mathematical constructions as well as objects envisioned by the soul in the Principles the work of the physicist who provides a quantified account of the machines of nature hovers between description and constitution For Kant mathematics reveals the possibility of universal and necessary knowledge that is neither the logical unpacking of concepts nor the record of perceptual experience In the Critique of Pure Reason mathematics is one of the transcendental instruments the human mind uses to apprehend nature and by apprehending to construct it under the universal and necessary laws of Newtonian mechanics

*The Logic of Metaphor* Eric Steinhart, 2013-06-29 1 Metaphors and Logic Metaphors are among the most vigorous offspring of the creative mind but their vitality springs from the fact that they are logical organisms in the ecology of language I aim to use logical techniques to analyze the meanings of metaphors My goal here is to show how contemporary formal semantics can be extended to handle metaphorical utterances What distinguishes this work is that it focuses intensely on the logical aspects of metaphors I stress the role of logic in the generation and interpretation of metaphors While I don't presuppose any formal training in logic some familiarity with philosophical logic the propositional calculus and the predicate calculus is helpful Since my theory makes great use of the notion of structure I refer to it as the structural theory of metaphor STM STM is a semantic theory of metaphor if STM is correct then metaphors are cognitively meaningful and are non-trivially logically linked with truth I aim to extend possible worlds semantics to handle metaphors I'll argue that some sentences in natural languages like English have multiple meanings Juliet is the sun has at least two meanings the literal meaning Juliet is the sun and the metaphorical meaning Juliet is the sun MET Each meaning is a function from possible worlds to truth values I deny that these functions are identical I deny that the metaphorical function is necessarily false or necessarily true

Explanatory Translation V. Rantala, 2013-11-11 In this book Veikko Rantala makes a systematic attempt to understand cognitive characteristics of translation by bringing its logical pragmatic and hermeneutic features together and examining a number of scientific logical and philosophical applications The notion of translation investigated here is called explanatory but it is not a translation in the standard sense of the word since it admits of conceptual change Such translations can take various degrees of precision and therefore they can occur in contexts of different kinds from everyday discourse to literary texts to scientific change The book generalizes some earlier approaches to translation especially the one presented in David Pearce's monograph Roads to Commensurability Rantala argues that the notion has something in common with Thomas Kuhn's earlier conception of scientific change and his views of language learning but it can be used to go beyond Kuhn's well

known ideas and challenge his criticism concerning the import of the correspondence relation      *In the Scope of Logic, Methodology and Philosophy of Science* Peter Gärdenfors, Jan Wolenski, K. Kijania-Placek, 2002-12-31 This is the first of two volumes containing papers submitted by the invited speakers to the 11th International Congress of Logic Methodology and Philosophy of Science The book presents the state of the intellectual discourse in the respective fields      **Optic Flow and Beyond** L.M. Vaina, Scott A. Beardsley, Simon K. Rushton, 2004-04-30 Optic flow provides all the information necessary to guide a walking human or a mobile robot to its target Over the past 50 years a body of research on optic flow spanning the disciplines of neurophysiology psychophysics experimental psychology brain imaging and computational modelling has accumulated Today when we survey the field we find independent lines of research have now converged and many arguments have been resolved simultaneously the underpinning assumptions of flow theory are being questioned and alternative accounts of the visual guidance of locomotion proposed At this critical juncture this volume offers a timely review of what has been learnt and pointers to where the field is going      **Internal Logic** Y. Gauthier, 2013-03-09 Internal logic is the logic of content The content is here arithmetic and the emphasis is on a constructive logic of arithmetic arithmetical logic Kronecker's general arithmetic of forms polynomials together with Fermat's infinite descent is put to use in an internal consistency proof The view is developed in the context of a radical arithmetization of mathematics and logic and covers the many faceted heritage of Kronecker's work which includes not only Hilbert but also Frege Cantor Dedekind Husserl and Brouwer The book will be of primary interest to logicians philosophers and mathematicians interested in the foundations of mathematics and the philosophical implications of constructivist mathematics It may also be of interest to historians since it covers a fifty year period from 1880 to 1930 which has been crucial in the foundational debates and their repercussions on the contemporary scene      *Explanation* Giora Hon, Sam S. Rakover, 2013-04-17 For some years we have been conducting at the University of Haifa an interdisciplinary seminar on explanation in philosophy and psychology We habitually begin the seminar with some philosophical reflections on explanation an analysis of the concept and its metaphysical underpinnings We discuss the various models and proceed to examine explanation in the setting of psychology Thus from the outset we have focused not only on the concept itself but also on its application The objective that we have set for the seminar attended by students from both departments Philosophy and Psychology has been a critical understanding of the concept of explanation its use and limitations We were keen on deepening our understanding of the concept and on exploring its applications in fields of knowledge other than psychology This was the motivation for convening an international conference on explanation and its application The conference took place in the spring of 1998 under the auspices of the University of Haifa The present book is the fruit of this meeting The reader should note that the second part of the Introduction presents a detailed analytical account of the book We hope that this overview will facilitate efficient use of the book by directing the reader's attention to those issues that might be of interest to him or her      Probability Theory Vincent F. Hendricks, Stig Andur Pedersen, Klaus

Frovin Jørgensen, 2001-06-30 A collection of papers presented at the conference on Probability Theory Philosophy Recent History and Relations to Science University of Roskilde Denmark September 16 18 1998 Since the measure theoretical definition of probability was proposed by Kolmogorov probability theory has developed into a mature mathematical theory It is today a fruitful field of mathematics that has important applications in philosophy science engineering and many other areas The measure theoretical definition of probability and its axioms however are not without their problems some of them even puzzled Kolmogorov This book sheds light on some recent discussions of the problems in probability theory and their history analysing their philosophical and mathematical significance and the role of mathematical probability theory in other sciences

The Withdrawal of Rights O. Ezra, 2013-06-29 Like most discussions within the tradition of rights talk this study is motivated by the desire to promote the idea that rights are moral assets that people should acquire in the course of their membership within social and political frameworks However while most participants in rights talk concentrate on the safety and protection constraints required for a successful exercising of rights the present study inquires into the circumstances under which people's rights lose their validity The author believes that if we want to prevent the erosion of the role of rights within society and to encourage their obligatory status we should prevent their misuse or their unjustified or excessive use Those who have interests in rights and are concerned about their withdrawal or denial will find a unique and inventive way of dealing both with the use as well as the abuse of rights

**Collected Papers of Stig Kanger with Essays on his Life and Work Volume II** Ghita Holmström-Hintikka, Sten Lindström, R. Sliwinski, 2012-12-06 Stig Kanger 1924 1988 made important contributions to logic and formal philosophy Kanger's dissertation *Provability in Logic* 1957 contained significant results in proof theory as well as the first fully worked out model theoretic interpretation of quantified modal logic It is generally accepted nowadays that Kanger was one of the originators of possible worlds semantics for modal logic Kanger's most original achievements were in the areas of general proof theory the semantics of modal and deontic logic and the logical analysis of the concept of rights He also contributed to action theory preference logic and the theory of measurement This is the first of two volumes dedicated to the work of Stig Kanger The present volume is a complete collection of Kanger's philosophical papers The second volume contains critical essays on Kanger's work as well as biographical essays on Kanger written by colleagues and friends

*Signs of Logic* Ahti-Veikko Pietarinen, 2006-08-25 Charles Sanders Peirce 1839 1914 the principal subject of this book was one of the most profound and prolific thinkers and scientists to have come out of the United States His pragmatic logic and scientific methodology largely represent the application of interactive and intercommunicative triadic processes best viewed as strategic and dialogic conceptualisations of logical aspects of thought reasoning and action These viewpoints also involve pragmatic issues in communicating linguistic signs and are unified in his diagrammatic logic of existential graphs The various game theoretic approaches to the semantics and pragmatics of signs and language to the theory of communication and to the evolutionary emergence of signs provide a contemporary toolkit the

relevance of which Peirce envisioned to a wondrous extent This work sheds considerable new light on these and other aspects of Peirce's philosophy and his pragmatic theory of meaning Many of his most significant writings in this context reflect his later thinking covering roughly the last 15-20 years of his life and they are still unpublished Drawing comprehensively from his unpublished manuscripts the book offers a fresh and rich picture of this remarkable man's original involvement with logical aspects of thought in action

**CRITIQUE OF IMPURE REASON** Steven James

Bartlett, 2021-09-01 The Critique of Impure Reason Horizons of Possibility and Meaning comprises a major and important contribution to philosophy It inaugurates a revolutionary paradigm shift in philosophical thought by providing compelling and long sought for solutions to a wide range of philosophical problems In the process the massive work fundamentally transforms the way in which the concepts of reference meaning and possibility are understood The book includes a Foreword by the celebrated German philosopher and physicist Carl Friedrich von Weizsäcker In Kant's Critique of Pure Reason we find an analysis of the preconditions of experience and of knowledge In contrast but yet in parallel the new Critique focuses upon the ways unfortunately very widespread and often unselfconsciously habitual in which many of the concepts that we employ conflict with the very preconditions of meaning and of knowledge This is a book about the boundaries of frameworks and about the unrecognized conceptual confusions in which we become entangled when we attempt to transgress beyond the limits of the possible and meaningful We tend either not to recognize or not to accept that we all too often attempt to trespass beyond the boundaries of the frameworks that make knowledge possible and the world meaningful The Critique of Impure Reason proposes a bold ground breaking and startling thesis that a great many of the major philosophical problems of the past can be solved through the recognition of a viciously deceptive form of thinking to which philosophers as well as non philosophers commonly fall victim For the first time the book advances and justifies the criticism that a substantial number of the questions that have occupied philosophers fall into the category of impure reason violating the very conditions of their possible meaningfulness The purpose of the study is twofold first to enable us to recognize the boundaries of what is referentially forbidden the limits beyond which reference becomes meaningless and second to avoid falling victims to a certain broad class of conceptual confusions that lie at the heart of many major philosophical problems As a consequence the boundaries of possible meaning are determined Bartlett the author or editor of more than 20 books is responsible for identifying this widespread and delusion inducing variety of error metalogical projection It is a previously unrecognized and insidious form of erroneous thinking that undermines its own possibility of meaning It comes about as a result of the pervasive human compulsion to seek to transcend the limits of possible reference and meaning Based on original research and rigorous analysis combined with extensive scholarship the Critique of Impure Reason develops a self validating method that makes it possible to recognize correct and eliminate this major and pervasive form of fallacious thinking In so doing the book provides at last provable and constructive solutions to a wide range of major philosophical problems

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**The Dynamics of Thought** Peter Gardenfors, 2005-07 This volume is a collection of some of the most important philosophical papers by Peter Gardenfors. Spanning a period of more than 20 years of his research, they cover a wide ground of topics from early works on decision theory, belief revision, and nonmonotonic logic to more recent work on conceptual spaces, inductive reasoning, semantics, and the evolutions of thinking. Many of the papers have only been published in places that are difficult to access. The common theme of all the papers is the dynamics of thought. Several of the papers have become minor classics, and the volume bears witness of the wide scope of Gardenfors' research and of his crisp and often witty style of writing. The volume will be of interest to researchers in philosophy and other cognitive sciences.

*Logic, Meaning and Computation* C. Anthony Anderson, Michael Zelëny, 2012-12-06 This volume began as a remembrance of Alonzo Church while he was still with us and is now finally complete. It contains papers by many well known scholars, most of whom have been directly influenced by Church's own work. Often the emphasis is on foundational issues in logic, mathematics, computation, and philosophy, as was the case with Church's contributions, now universally recognized as having been of profound fundamental significance in those areas. The volume will be of interest to logicians, computer scientists,



philosophers and linguists The contributions concern classical first order logic higher order logic non classical theories of implication set theories with universal sets the logical and semantical paradoxes the lambda calculus especially as it is used in computation philosophical issues about meaning and ontology in the abstract sciences and in natural language and much else The material will be accessible to specialists in these areas and to advanced graduate students in the respective fields

**History and Philosophy of Constructive Type Theory** Giovanni Sommaruga, 2013-03-09 A comprehensive survey of Martin L f s constructive type theory considerable parts of which have only been presented by Martin L f in lecture form or as part of conference talks Sommaruga surveys the prehistory of type theory and its highly complex development through eight different stages from 1970 to 1995 He also provides a systematic presentation of the latest version of the theory as offered by Martin L f at Leiden University in Fall 1993 This presentation gives a fuller and updated account of the system Earlier brief presentations took no account of the issues related to the type theoretical approach to logic and the foundations of mathematics while here they are accorded an entire part of the book Readership Comprehensive accounts of the history and philosophy of constructive type theory and a considerable amount of related material Readers need a solid background in standard logic and a first basic acquaintance with type theory

**If Tropes** A-S. Maurin, 2013-04-17 In the book *If Tropes* the author attempts to approach and then deal with some of the most basic problems for a theory of tropes The investigation proceeds from three basic assumptions i tropes i e particular properties exist ii only tropes exist that is tropes are the only basic or fundamental kind of entities and iii the main function for tropes is to serve as truth makers for atomic propositions Provided that one accepts these assumptions the author finds that the trope theorist will have to deal with two important matters Some atomic propositions seem to require universal truth makers and others seem to require concrete truth makers This means that universals and concrete particulars will need to be constructed from the material of tropes Such constructions are attempted and it is argued that it is possible to deal at least with these basic issues while staying squarely within the boundaries of a purely trope theoretical framework The book is written in an untechnical language but requires some prior understanding of basic metaphysics

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