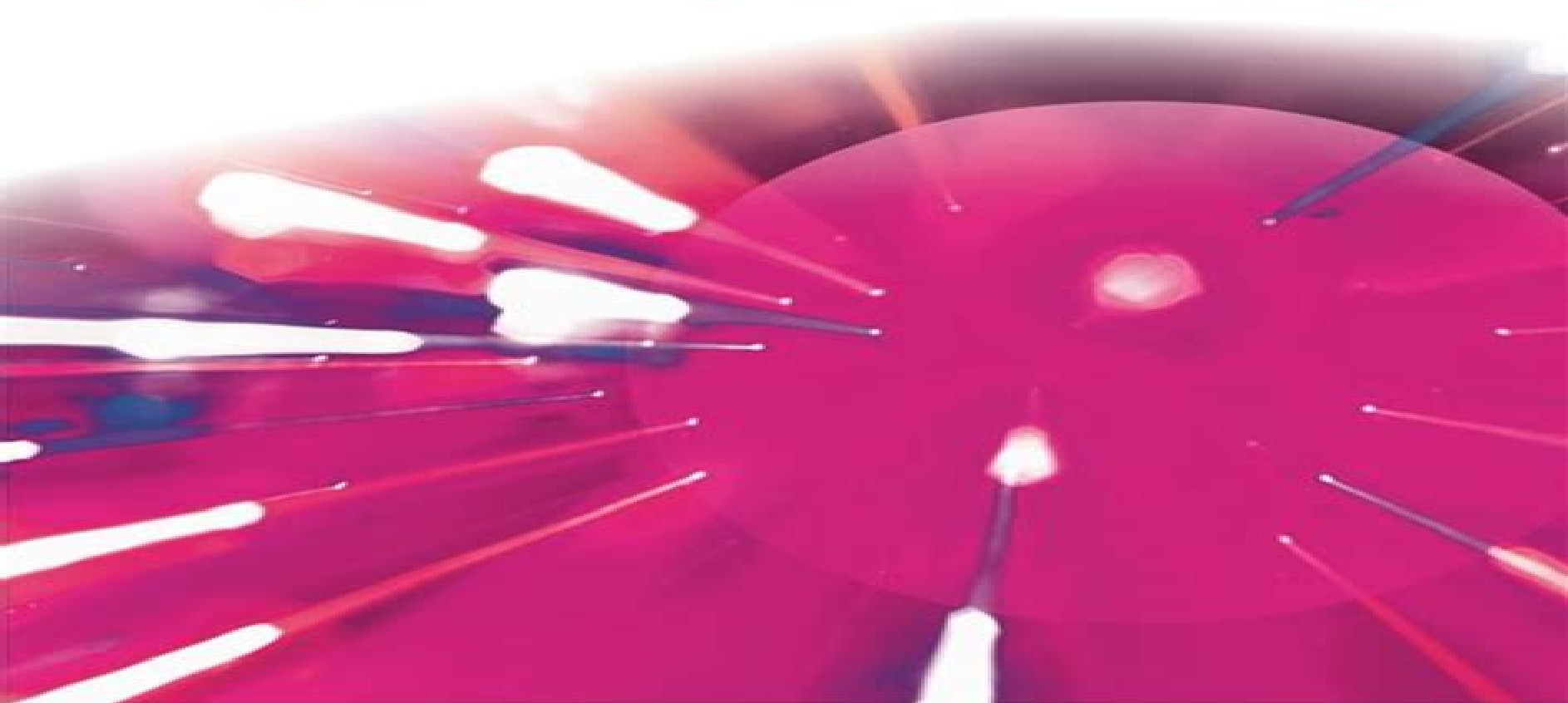


Yoad Winter

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An Introduction to the Mathematical
Theory of Meaning in Natural Language



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along with associated proof techniques Denotational and axiomatic semantics are illustrated on a simple language of while programs and fall proofs are given of the equivalence of the operational and denotational semantics and soundness and relative completeness of the axiomatic semantics A proof of Godel's incompleteness theorem which emphasizes the impossibility of achieving a fully complete axiomatic semantics is included It is supported by an appendix providing an introduction to the theory of computability based on while programs Following a presentation of domain theory the semantics and methods of proof for several functional languages are treated The simplest language is that of recursion equations with both call by value and call by name evaluation This work is extended to languages with higher and recursive types including a treatment of the eager and lazy lambda calculi Throughout the relationship between denotational and operational semantics is stressed and the proofs of the correspondence between the operation and denotational semantics are provided The treatment of recursive types one of the more advanced parts of the book relies on the use of information systems to represent domains The book concludes with a chapter on parallel programming languages accompanied by a discussion of methods for specifying and verifying nondeterministic and parallel programs

Introduction to Formal Semantics Glynn Winskel, 1991-09-01

Linguistic Semantics John Lyons, 1995-11-30 This successor to *Language Meaning and Context* provides an invaluable introduction to linguistic semantics

The Formal Semantics of Programming Languages Glynn WINSKELL, 1996

Informal Lectures on Formal Semantics Emmon W. Bach, 1989-01-01 This book is an introduction to the current developments in model theoretic semantics which has become an essential part of the work in theoretical linguistics over the last decade The author examines the model structure of Montague's theory and then presents elaborations on this basic model that have been of particular importance in the last few years generalized quantifiers the introduction of more structure in the domain of individuals properties as primitive elements in the model situations and similar smaller worldlike entities Nothing is presupposed about knowledge of the mathematical and logical tools used in formal semantics and Bach presents the informal with a minimum of formalism

The Cambridge Handbook of Formal Semantics Maria Aloni, Paul Dekker, 2016-07-07 Formal semantics the scientific study of meaning in natural language is one of the most fundamental and long established areas of linguistics This Handbook offers a comprehensive yet compact guide to the field bringing together research from a wide range of world leading experts Chapters include coverage of the historical context and foundation of contemporary formal semantics a survey of the variety of formal logical approaches to linguistic meaning and an overview of the major areas of research within current semantic theory broadly conceived The Handbook also explores the interfaces between semantics and neighbouring disciplines including research in cognition and computation This work will be essential reading for students and researchers working in linguistics philosophy psychology and computer science

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Semantics, Pragmatics, Philosophy Kasia M. Jaszczolt, Katarzyna Jaszczolt, 2023-03-16 Combining semantics pragmatics and philosophy this is a guide on how to think about meaning like a linguist and philosopher Meaning and Speech Acts: Volume 2, Formal Semantics of Success and Satisfaction Daniel Vanderveken, 2009-03-19 In *Meaning and Speech Acts* Daniel Vanderveken further develops the logic of speech acts and the logic of propositions to construct a general semantic theory of natural languages **Compositionality in Formal Semantics** Barbara H. Partee, 2008-04-15 *Compositionality in Formal Semantics* is a collection of Barbara Partee's papers that have been influential in the field but are not readily available and includes a new introductory essay in which Partee reflects on how her thinking and the field of semantics have developed over the past 35 years Brings together in one volume influential but difficult to find papers by one of the most important researchers in formal semantics Includes a new introductory essay in which Partee reflects on how her research and the field of semantics have developed over the past 35 years Discusses critical themes in semantic theory **Processes, Beliefs,**

and Questions S. Peters, Esa Saarinen, 1981-11-30 SECTION I In 1972 Donald Davison and Gilbert Harman wrote in the introduction to the volume *Semantics of Natural Language* The success of linguistics in treating natural languages as formal syntactic systems has aroused the interest of a number of linguists in a parallel or related development of semantics For the most part quite independently many philosophers and logicians have recently been applying formal semantic methods to structures increasingly like natural languages While differences in training method and vocabulary tend to veil the fact philosophers and linguists are converging it seems on a common set of interrelated problems Davidson and Harman called for an interdisciplinary dialogue of linguists philosophers and logicians on the semantics of natural language and during the last ten years such an enterprise has proved extremely fruitful Thanks to the cooperative effort in these several fields the last decade has brought about striking progress in our understanding of the semantics of natural language This work on semantics has typically paid little attention to psychological aspects of meaning Thus psychologists or computer scientists working on artificial intelligence were not invited to join the forces in the influential introduction of *Semantics of Natural Language* No doubt it was felt that while psychological aspects of language are important in their own right they are not relevant to our immediate semantic concerns In the last few years several linguists and logicians have come to question the fundamental anti psychological assumptions underlying their theorizing

Rudolf Carnap: Studies in Semantics Steve Awodey, Greg Frost-Arnold, 2024-07-18 Volume 7 of the *Collected Works of Rudolf Carnap* presents *Studies in Semantics* which comprises three interlocking books *Introduction to Semantics* 1942 *Formalization of Logic* 1942 and *Meaning and Necessity* 1947 Along with textual notes the editors introduction places Carnap's whole semantic project in its various contexts

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