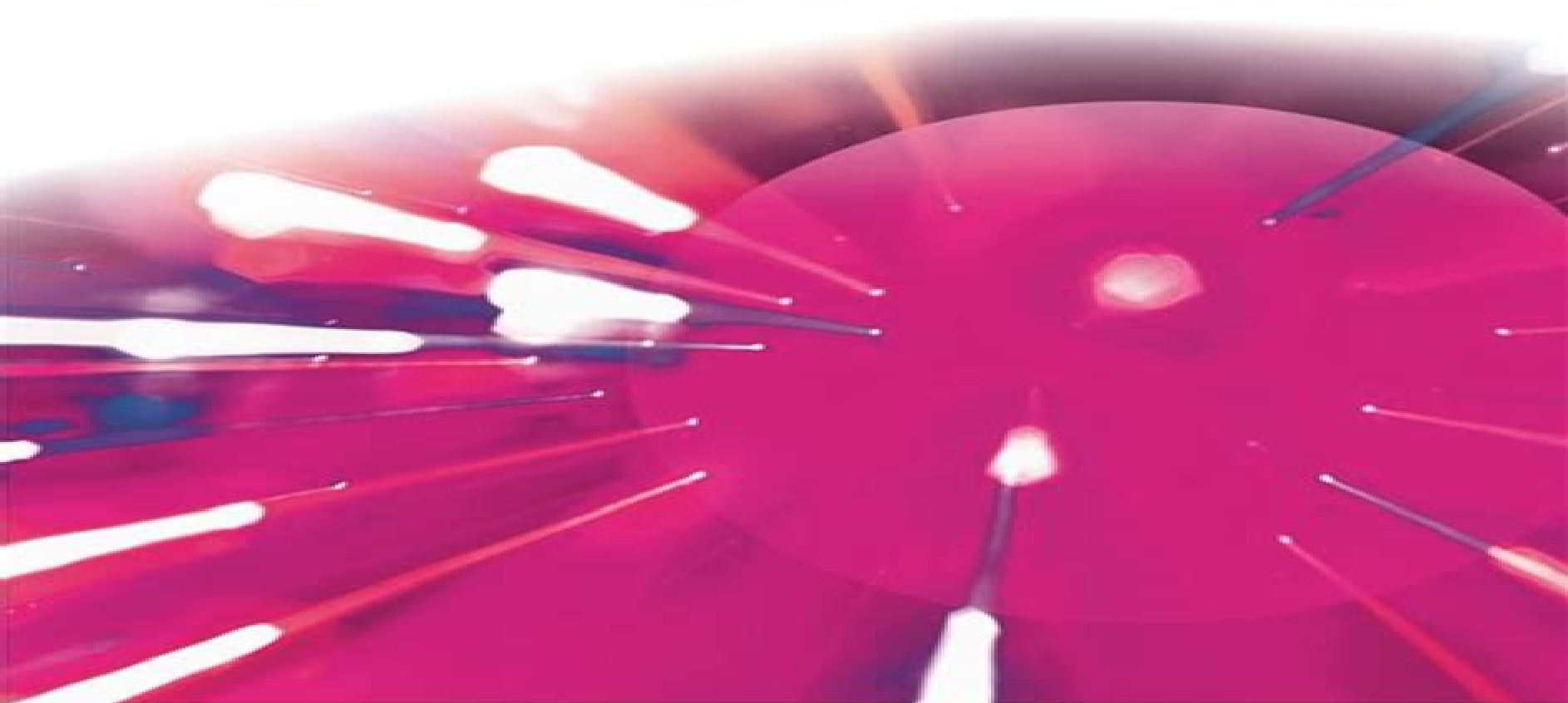


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An Introduction to Lexical Semantics EunHee Lee,2022-12-30 An Introduction to Lexical Semantics provides a comprehensive theoretical overview of lexical semantics analysing the major lexical categories in English verbs nouns adjectives adverbs and prepositions The book illustrates step by step how to use formal semantic tools Divided into four parts covering the key aspects of lexical semantics this book introduces readers to the major influential theories including the syntax lexical semantics interface theory by Levin and Rappaport and Pinker the generative lexicon theory by Pustejovsky and formal semantic analyses discusses key topics in formal semantics including metonymy metaphor and polysemy illustrates how to study word meaning scientifically by discussing mathematical notions applied to compositional semantics Including reflection questions summaries further reading and practice exercises for each chapter this accessible guide to lexical semantics is essential reading for advanced students and teachers of formal semantics **The Formal Semantics of**

Programming Languages Glynn Winskel,1993-02-05 The Formal Semantics of Programming Languages provides the basic mathematical techniques necessary for those who are beginning a study of the semantics and logics of programming languages These techniques will allow students to invent formalize and justify rules with which to reason about a variety of programming languages Although the treatment is elementary several of the topics covered are drawn from recent research including the vital area of concurrency The book contains many exercises ranging from simple to miniprojects Starting with basic set theory structural operational semantics is introduced as a way to define the meaning of programming languages

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

Formal Semantics Paul H. Portner, Barbara H. Partee, 2008-04-15 *Formal Semantics The Essential Readings* is a collection of seminal papers that have shaped the field of formal semantics in linguistics

Semantics for Latin A. M.

Devine, Laurence D. Stephens, 2013-03-07 *Semantics for Latin* is the first work to apply the discipline of Formal Semantics to the study of Latin grammatical meaning **Formal Semantics in Modern Type Theories** Stergios Chatzikyriakidis, Zhaohui Luo, 2021-02-17 This book studies formal semantics in modern type theories MTT semantics Compared with simple type theory MTTs have much richer type structures and provide powerful means for adequate semantic constructions This offers a serious alternative to the traditional set-theoretical foundation for linguistic semantics and opens up a new avenue for developing formal semantics that is both model theoretic and proof theoretic which was not available before the development of MTT semantics This book provides a reader friendly and precise description of MTTs and offers a comprehensive introduction to MTT semantics It develops several case studies such as adjectival modification and copredication to exemplify the attractiveness of using MTTs for the study of linguistic meaning It also examines existing proof assistant technology based on MTT semantics for the verification of semantic constructions and reasoning in natural language Several advanced topics are also briefly studied including dependent event types an application of dependent typing to event semantics *A Reader's Guide to Classic Papers in Formal Semantics* Louise McNally, Zoltán Gendler Szabó, 2022-08-05 This volume contains 21 new and original contributions to the study of formal semantics written by distinguished experts in response to landmark papers in the field The chapters make the target articles more accessible by providing background modernizing the notation providing critical commentary explaining the afterlife of the proposals and offering a useful bibliography for further study The chapters were commissioned by the series editors to mark the 100th volume in the book series *Studies in Linguistics and Philosophy* The target articles are amongst the most widely read and cited papers up to the end of the 20th century and cover most of the important subfields of formal semantics The authors are all prominent researchers in the field making this volume a valuable addition to the literature for researchers students and teachers of formal semantics Chapter 19 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) [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 Davidson 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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