
Logic Wilfrid Hodges

Philosophy of Logic, 2nd Edition
The Blackwell Guide to Philosophical Logic
Model Theory
Dependence Logic
Logic
Mathematical Logic
A Friendly Introduction to Mathematical Logic
Logic
A Profile of Mathematical Logic
An Invitation to Model Theory
ELEMENTARY LOGIC REV ED P
Logic, Mathematics, Philosophy, Vintage Enthusiasms
Philosophy of Logic
Building Models by Games
An Introduction to Formal Logic
Handbook of Spatial Logics
The Development of Modern Logic
Logic
A First Course in Logic
The Cambridge Companion to Medieval Logic
Mathematical Logic
Lewis Carroll's Symbolic Logic
Logic
A Mathematical Introduction to Logic
Interactive Logic
Propositional and Predicate Calculus: A Model of Argument
Paradoxes
A Course in Model Theory
A Tour Through Mathematical Logic
Philosophy and Model Theory
An Introduction to Non-Classical Logic
Computability and Logic
Logic
Logic Without Borders
A Shorter Model Theory
Introduction to Logic
Advances in Proof-Theoretic Semantics
Logic Without All of the Logic
Being Logical
Logic and Structure

Downloaded
from
Logic Wilfrid Hodges archive.imba.com
m by guest

DESIREE SHILOH

Philosophy of Logic, 2nd Edition Cambridge University Press
The papers presented in this volume examine topics of central interest in contemporary philosophy of logic. They include reflections on the nature of logic and its relevance for philosophy today, and explore in depth developments in informal logic and the relation of informal to symbolic logic, mathematical metatheory and the limiting metatheorems, modal logic, many-valued logic, relevance and paraconsistent logic, free logics, extensional v. intensional logics, the logic of fiction, epistemic logic, formal logical and semantic paradoxes, the concept of truth, the formal theory of entailment, objectual and substitutional interpretation of the quantifiers, infinity and domain constraints, the Löwenheim-Skolem theorem and Skolem paradox, vagueness, modal realism v. actualism, counterfactuals and the logic of causation, applications of logic and

mathematics to the physical sciences, logically possible worlds and counterpart semantics, and the legacy of Hilbert's program and logicism. The handbook is meant to be both a compendium of new work in symbolic logic and an authoritative resource for students and researchers, a book to be consulted for specific information about recent developments in logic and to be read with pleasure for its technical acumen and philosophical insights. - Written by leading logicians and philosophers - Comprehensive authoritative coverage of all major areas of contemporary research in symbolic logic - Clear, in-depth expositions of technical detail - Progressive organization from general considerations to informal to symbolic logic to nonclassical logics - Presents current work in symbolic logic within a unified framework - Accessible to students, engaging for experts and professionals - Insightful philosophical discussions of all aspects of logic - Useful bibliographies in every chapter
The Blackwell Guide to Philosophical Logic
Pearson Education India

This introduction to mathematical logic explores philosophical issues and Gödel's Theorem. Its widespread influence extends to the author of Gödel, Escher, Bach, whose Pulitzer Prize-winning book was inspired by this work.

Model Theory

Birkhäuser
Model theory begins with an audacious idea: to consider statements about mathematical structures as mathematical objects of study in their own right. While inherently important as a tool of mathematical logic, it also enjoys connections to and applications in diverse branches of mathematics, including algebra, number theory and analysis. Despite this, traditional introductions to model theory assume a graduate-level background of the reader. In this innovative textbook, Jonathan Kirby brings model theory to an undergraduate audience. The highlights of basic model theory are illustrated through examples from specific structures familiar from undergraduate mathematics, paying particular attention to definable sets throughout. With numerous exercises

of varying difficulty, this is an accessible introduction to model theory and its place in mathematics.

Dependence Logic

Amsterdam University Press

This volume presents a definitive introduction to twenty core areas of philosophical logic including classical logic, modal logic, alternative logics and close examinations of key logical concepts. The chapters, written especially for this volume by internationally distinguished logicians, philosophers, computer scientists and linguists, provide comprehensive studies of the concepts, motivations, methods, formal systems, major results and applications of their subject areas. The *Blackwell Guide to Philosophical Logic* engages both general readers and experienced logicians and provides a solid foundation for further study.

Logic Cambridge University Press

This revised and considerably expanded 2nd edition brings together a wide range of topics, including modal, tense, conditional, intuitionist, many-valued, paraconsistent, relevant, and fuzzy logics. Part 1,

on propositional logic, is the old Introduction, but contains much new material. Part 2 is entirely new, and covers quantification and identity for all the logics in Part 1. The material is unified by the underlying theme of world semantics. All of the topics are explained clearly using devices such as tableau proofs, and their relation to current philosophical issues and debates are discussed. Students with a basic understanding of classical logic will find this book an invaluable introduction to an area that has become of central importance in both logic and philosophy. It will also interest people working in mathematics and computer science who wish to know about the area.

Mathematical Logic

Cambridge University Press

In recent years, mathematical logic has developed in many directions, the initial unity of its subject matter giving way to a myriad of seemingly unrelated areas. The articles collected here, which range from historical scholarship to recent research in geometric model theory, squarely address this development. These articles also

connect to the diverse work of Väänänen, whose ecumenical approach to logic reflects the unity of the discipline.

A Friendly Introduction to Mathematical Logic

Elsevier

Now much revised since its first appearance in 1941, this book, despite its brevity, is notable for its scope and rigor. It provides a single strand of simple techniques for the central business of modern logic. Basic formal concepts are explained, the paraphrasing of words into symbols is treated at some length, and a testing procedure is given for truth-function logic along with a complete proof procedure for the logic of quantifiers. Fully one third of this revised edition is new, and presents a nearly complete turnover in crucial techniques of testing and proving, some change of notation, and some updating of terminology. The study is intended primarily as a convenient encapsulation of minimum essentials, but concludes by giving brief glimpses of further matters.

Logic Harvard University Press

With his customary incisiveness, W. V. Quine

presents logic as the product of two factors, truth and grammar--but argues against the doctrine that the logical truths are true because of grammar or language. Rather, in presenting a general theory of grammar and discussing the boundaries and possible extensions of logic, Quine argues that logic is not a mere matter of words.

A Profile of Mathematical Logic Random House Trade Paperbacks
Contents include an elementary but thorough overview of mathematical logic of 1st order; formal number theory; surveys of the work by Church, Turing, and others, including Gödel's completeness theorem, Gentzen's theorem, more.
An Invitation to Model Theory American Mathematical Soc.
Model theory is used in every theoretical branch of analytic philosophy: in philosophy of mathematics, in philosophy of science, in philosophy of language, in philosophical logic, and in metaphysics. But these wide-ranging uses of model theory have created a highly fragmented literature. On the one hand, many philosophically significant

results are found only in mathematics textbooks: these are aimed squarely at mathematicians; they typically presuppose that the reader has a serious background in mathematics; and little clue is given as to their philosophical significance. On the other hand, the philosophical applications of these results are scattered across disconnected pockets of papers. The first aim of this book, then, is to explore the philosophical uses of model theory, focusing on the central topics of reference, realism, and doxology. Its second aim is to address important questions in the philosophy of model theory, such as: sameness of theories and structure, the boundaries of logic, and the classification of mathematical structures. *Philosophy and Model Theory* will be accessible to anyone who has completed an introductory logic course. It does not assume that readers have encountered model theory before, but starts right at the beginning, discussing philosophical issues that arise even with conceptually basic model theory. Moreover, the book is largely self-contained: model-theoretic notions are

defined as and when they are needed for the philosophical discussion, and many of the most philosophically significant results are given accessible proofs.

ELEMENTARY LOGIC REV ED P OUP Oxford

If a man supports Arsenal one day and Spurs the next then he is fickle but not necessarily illogical. From this starting point, and assuming no previous knowledge of logic, Wilfrid Hodges takes the reader through the whole gamut of logical expressions in a simple and lively way. Readers who are more mathematically adventurous will find optional sections introducing rather more challenging material. 'A lively and stimulating book' *Philosophy*
Logic, Mathematics, Philosophy, Vintage Enthusiasms Routledge
This volume is the first ever collection devoted to the field of proof-theoretic semantics. Contributions address topics including the systematics of introduction and elimination rules and proofs of normalization, the categorial characterization of deductions, the relation between Heyting's and Gentzen's approaches to meaning, knowability

paradoxes, proof-theoretic foundations of set theory, Dummett's justification of logical laws, Kreisel's theory of constructions, paradoxical reasoning, and the defence of model theory. The field of proof-theoretic semantics has existed for almost 50 years, but the term itself was proposed by Schroeder-Heister in the 1980s. Proof-theoretic semantics explains the meaning of linguistic expressions in general and of logical constants in particular in terms of the notion of proof. This volume emerges from presentations at the Second International Conference on Proof-Theoretic Semantics in Tübingen in 2013, where contributing authors were asked to provide a self-contained description and analysis of a significant research question in this area. The contributions are representative of the field and should be of interest to logicians, philosophers, and mathematicians alike.

[Philosophy of Logic](#)

Lulu.com

An essential tool for our post-truth world: a witty primer on logic—and the dangers of illogical thinking—by a renowned Notre Dame professor. Logic is synonymous with

reason, judgment, sense, wisdom, and sanity. Being logical is the ability to create concise and reasoned arguments—arguments that build from given premises, using evidence, to a genuine conclusion. But mastering logical thinking also requires studying and understanding illogical thinking, both to sharpen one's own skills and to protect against incoherent, or deliberately misleading, reasoning. Elegant, pithy, and precise, *Being Logical* breaks logic down to its essentials through clear analysis, accessible examples, and focused insights. D. Q. McInerney covers the sources of illogical thinking, from naïve optimism to narrow-mindedness, before dissecting the various tactics—red herrings, diversions, and simplistic reasoning—the illogical use in place of effective reasoning. An indispensable guide to using logic to advantage in everyday life, this is a concise, crisply readable book. Written explicitly for the layperson, McInerney's *Being Logical* promises to take its place beside Strunk and White's *The Elements of Style* as a classic of lucid, invaluable

advice. Praise for *Being Logical* "Highly readable . . . D. Q. McInerney offers an introduction to symbolic logic in plain English, so you can finally be clear on what is deductive reasoning and what is inductive. And you'll see how deductive arguments are constructed."—Detroit Free Press "McInerney's explanatory outline of sound thinking will be eminently beneficial to expository writers, debaters, and public speakers."—Booklist "Given the shortage of logical thinking, And the fact that mankind is adrift, if not sinking, It is vital that all of us learn to think straight. And this small book by D.Q. McInerney is great. It follows therefore since we so badly need it, Everybody should not only but it, but read it."

—Charles Osgood

Building Models by Games
Springer Science & Business Media

The very first dedicated, comprehensive companion to medieval logic, covering both the Latin and Arabic sister traditions.

An Introduction to Formal Logic Cambridge University Press

Formal logic provides us with a powerful set of techniques for criticizing

some arguments and showing others to be valid. These techniques are relevant to all of us with an interest in being skilful and accurate reasoners. In this highly accessible book, Peter Smith presents a guide to the fundamental aims and basic elements of formal logic. He introduces the reader to the languages of propositional and predicate logic, and then develops formal systems for evaluating arguments translated into these languages, concentrating on the easily comprehensible 'tree' method. His discussion is richly illustrated with worked examples and exercises. A distinctive feature is that, alongside the formal work, there is illuminating philosophical commentary. This book will make an ideal text for a first logic course, and will provide a firm basis for further work in formal and philosophical logic.

Handbook of Spatial Logics Penguin UK
This fifth edition of 'Computability and Logic' covers not just the staple topics of an intermediate logic course such as Godel's incompleteness theorems, but also optional topics that include Turing's theory of computability and

Ramsey's theorem.

The Development of Modern Logic Oxford University Press
Traditionally, logic has dealt with notions of truth and reasoning. In the past several decades, however, research focus in logic has shifted to the vast field of interactive logic—the domain of logics for both communication and interaction. The main applications of this move are logical approaches to games and social software; the wealth of these applications was the focus of the seventh Augustus de Morgan Workshop in November 2005. This collection of papers from the workshop serves as the initial volume in the new series Texts in Logics and Games—touching on research in logic, mathematics, computer science, and game theory. "A wonderful demonstration of contemporary topics in logic."—Wiebe van der Hoek, University of Liverpool

Logic Courier Corporation
Model theory is concerned with the notions of definition, interpretation and structure in a very general setting, and is applied to a wide range of other areas such as set

theory, geometry, algebra and computer science.

This book provides an integrated introduction to model theory for graduate students.

A First Course in Logic
Cambridge University Press

The aim of this handbook is to create, for the first time, a systematic account of the field of spatial logic. The book comprises a general introduction, followed by fourteen chapters by invited authors. Each chapter provides a self-contained overview of its topic, describing the principal results obtained to date, explaining the methods used to obtain them, and listing the most important open problems. Jointly, these contributions constitute a comprehensive survey of this rapidly expanding subject.

The Cambridge Companion to Medieval Logic Wiley-Blackwell

The volume includes twenty-five research papers presented as gifts to John L. Bell to celebrate his 60th birthday by colleagues, former students, friends and admirers. Like Bell's own work, the contributions cross boundaries into several inter-related fields. The contributions

are new work by highly respected figures, several of whom are among the key figures in their fields. Some examples: in foundations of maths and logic (William Lawvere, Peter Aczel, Graham Priest, Giovanni Sambin); analytical philosophy

(Michael Dummett, William Demopoulos), philosophy of science (Michael Redhead, Frank Arntzenius), philosophy of mathematics (Michael Hallett, John Mayberry, Daniel Isaacson) and decision theory and foundations of economics

(Ken Bimore). Most articles are contributions to current philosophical debates, but contributions also include some new mathematical results, important historical surveys, and a translation by Wilfrid Hodges of a key work of arabic logic.

Related with Logic Wilfrid Hodges:

- Guided Visualization Scripts Pdf : [click here](#)