

A Philosophical Companion to First-Order Logic

Edited by
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A Philosophical Companion To First Order Logic

Gary Kemp



A Philosophical Companion To First Order Logic:

A Philosophical Companion to First-order Logic R. I. G. Hughes, 1993 *Introduction to Formal Logic* Russell Marcus, 2018 Rigorous yet intuitive and accessible Introduction to Formal Logic provides a focused nuts and bolts introduction to formal deductive logic that covers syntax semantics translation and natural deduction for propositional and predicate logics For instructors who want to go beyond a basic introduction to explore the connection between formal logic techniques and philosophy Oxford also publishes *Introduction to Formal Logic with Philosophical Applications* an extended version of this text that incorporates two chapters of stand alone essays on logic and its application in philosophy and beyond

Philosophies of the Sciences Fritz Allhoff, 2015-12-02 A collection of essays discussing a wide range of sciences and the central philosophical issues associated with them presenting the sciences collectively to encourage a greater understanding of their associative theoretical foundations as well as their relationships to each other Offers a new and unique approach to studying and comparing the philosophies of a variety of scientific disciplines Explores a wide variety of individual sciences including mathematics physics chemistry biology psychology sociology and economics The essays are written by leading scholars in a highly accessible style for the student audience Complements more traditional studies of philosophy of science *A Companion to Philosophical Logic* Dale Jacquette, 2005-11-11 This collection of newly commissioned essays by international contributors offers a representative overview of the most important developments in contemporary philosophical logic Presents controversies in philosophical implications and applications of formal symbolic logic Surveys major trends and offers original insights **Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences** Ivor Grattan-Guinness, 2002-09-11 Examines the history and philosophy of the mathematical sciences in a cultural context tracing their evolution from ancient times up to the twentieth century 176 articles contributed by authors of 18 nationalities Chronological table of main events in the development of mathematics Fully integrated index of people events and topics Annotated bibliographies of both classic and contemporary sources Unique coverage of Ancient and non Western traditions of mathematics **Logic's Lost Genius** Eckart Menzler-Trott, 2016-05-05 Gerhard Gentzen 1909 1945 is the founder of modern structural proof theory His lasting methods rules and structures resulted not only in the technical mathematical discipline called proof theory but also in verification programs that are essential in computer science The appearance clarity and elegance of Gentzen's work on natural deduction the sequent calculus and ordinal proof theory continue to be impressive even today The present book gives the first comprehensive detailed accurate scientific biography expounding the life and work of Gerhard Gentzen one of our greatest logicians until his arrest and death in Prague in 1945 Particular emphasis in the book is put on the conditions of scientific research in this case mathematical logic in National Socialist Germany the ideological fight for German logic and their mutual protagonists Numerous hitherto unpublished sources family documents archival material interviews and letters as well as Gentzen's lectures for the mathematical public

make this book an indispensable source of information on this important mathematician his work and his time The volume is completed by two deep substantial essays by Jan von Plato and Craig Smoryski on Gentzen's proof theory its relation to the ideas of Hilbert Brouwer Weyl and Gödel and its development up to the present day Smoryski explains the Hilbert program in more than the usual slogan form and shows why consistency is important Von Plato shows in detail the benefits of Gentzen's program This important book is a self contained starting point for any work on Gentzen and his logic The book is accessible to a wide audience with different backgrounds and is suitable for general readers researchers students and teachers

Logic and Metalogic , **Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences**
Ivor Grattan-Guinness, 2004-11-11 First published in 2004 This book examines the history and philosophy of the mathematical sciences in a cultural context tracing their evolution from ancient times up to the twentieth century Includes 176 articles contributed by authors of 18 nationalities With a chronological table of main events in the development of mathematics Has a fully integrated index of people events and topics as well as annotated bibliographies of both classic and contemporary sources and provide unique coverage of Ancient and non Western traditions of mathematics Presented in Two Volumes

The Lvov-Warsaw School. Past and Present Ángel Garrido, Urszula Wybraniec-Skardowska, 2018-06-12 This is a collection of new investigations and discoveries on the history of a great tradition the Lvov Warsaw School of logic and mathematics by the best specialists from all over the world The papers range from historical considerations to new philosophical logical and mathematical developments of this impressive School including applications to Computer Science Mathematics Metalogic Scientific and Analytic Philosophy Theory of Models and Linguistics What is this thing called Philosophy of Language?
Gary Kemp, 2024-03-04 Philosophy of language explores some of the most abstract yet most fundamental questions in philosophy The ideas of some of the subject's great founding figures such as Gottlob Frege Ludwig Wittgenstein and Bertrand Russell as well as of more recent figures such as Saul Kripke and Hilary Putnam are central to a great many philosophical debates to this day and are widely studied In this clear and carefully structured introduction to the subject Gary Kemp explains the following key topics the basic nature of philosophy of language its concepts and its historical development Frege's theory of sense and reference Russell's theory of definite descriptions Wittgenstein's Tractatus Ayer and the Logical Positivists recent perspectives including Kripke Kaplan Putnam Chomsky Quine and Davidson arguments concerning translation necessity indexicals rigid designation and natural kinds the pragmatics of language including speech acts presupposition and conversational implicature puzzles surrounding the propositional attitudes sentences which ascribe beliefs to people the challenges presented by the later Wittgenstein contemporary directions including contextualism fictional objects and the phenomenon of slurs The third edition has been thoroughly revised throughout and includes a new chapter on Noam Chomsky's theory of Universal Grammar In addition the concluding chapter on modern directions in philosophy of language has been expanded to two chapters and which now cover crucial emergent areas of study such as

slurs conceptual engineering and experimental philosophy Chapter summaries annotated further reading and a glossary make What is this thing called Philosophy of Language an indispensable introduction to those teaching philosophy of language and will be particularly useful for students coming to the subject for the first time

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