The Languages Of Logic An Introduction To Formal Logic

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Logic Logic: A Complete Introduction: Teach Yourself Philosophical Logic Philosophical Logic Logic: A Very Short Introduction First-order Logic Logic An Introduction to Formal Logic An Introduction to Logic - Second Edition Introduction to Logic The Art of Reasoning Logic, Language, and Meaning, Volume 1 Deontic Logic: Introductory and Systematic Readings Meaning and Argument Introduction to Logic from Everyday Life to Formal Systems The Logic of Hegel's 'Logic' Logic for Beginners A Concise Introduction to Mathematical Logic Introduction to Logic, Second Edition A Concise Introduction to Logic *Greg Restall Siu-Fan Lee George Englebretsen Sybil Wolfram Graham Priest Leigh S. Cauman Siu-Fan Lee Peter Smith Richard T.W. Arthur Irving M. Copi David Kelley L. T. F. Gamut R. Hilpinen Ernest Lepore Albert Mosley John W. Burbidge Michael J. Monge Wolfgang Rautenberg Michael Genesereth Patrick Hurley*

greg restall s logic provides concise introductions to propositional and first order predicate logic while showing how formal logic intersects with substantial philosophical issues such as vagueness conditionals relevance propositional attitudes and opaque contents the author also

examines the ideas behind modal logic free logic and other non standard logics and discusses the nature of logic itself the book covers both natural deduction and tree methods for proving validity each chapter includes excellent suggestions for further reading and both elementary and more advanced exercises with solutions provided on a website it is flexibly designed to be useable for half or full year courses for courses focusing exclusively on formal logic or for a variety of approaches that would integrate topics in philosophical logic restall examines many of the interesting issues raised by basic logical techniques and will undoubtedly stimulate further study in the discipline this is a logic book designed principally for philosophers but which will also be of interest to students of computer science cognitive science and linguistics

after a lifetime of dabbling in philosophy without tackling logic i bought a couple of books on the subject and was soon totally lost this book saved me amazon 5 star review unlike so many logic books this one is easy to follow step by step strongly recommended for beginners amazon 5 star review when you see black clouds looming and predict it s going to rain you re using logic when you decide that all swans are white because all the swans you ve seen are white that s logic too even though the conclusion is false as humans we want to understand how things are connected and why so that we can derive things we don t know yet from what we do logic studies the methods and principles to distinguish good and bad reasoning this book introduces three basic logical systems categorical logic propositional logic and predicate logic it identifies in each system essential methods to test arguments and there are illustrations and exercises to enhance your mastery of these skills by the time you finish you will understand what logicians were thinking when they designed logical systems and start to think like them whether you are preparing for an essay studying for an exam or simply want to expand your knowledge logic a complete introduction is your go to guide about the series the complete introduction series from teach yourself is the ultimate one stop guide for anyone wanting a comprehensive and accessible entry point into subjects as diverse as philosophy mathematics psychology shakespeare and practical electronics loved by students and perfect for general readers who simply want to learn more about the world around them these books are your first choice for discovering something new

introduces students to non classical logic syllogistic to quantificational and modal logic the book includes exercises throughout and a glossary of terms and symbols

a basic introduction to the subject which addresses questions of truth and meaning providing a basis for much of what is discussed elsewhere in philosophy up to date and comprehensive

logic is often perceived as having little to do with the rest of philosophy and even less to do with real life in this lively and accessible introduction graham priest shows how wrong this conception is he explores the philosophical roots of the subject explaining how modern formal logic deals with issues ranging from the existence of god and the reality of time to paradoxes of probability and decision theory along the way the basics of formal logic are explained in simple non technical terms showing that logic is a powerful and exciting part of modern philosophy in this new edition graham priest expands his discussion to cover the subjects of algorithms and axioms and proofs in mathematics about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

an introduction to principles and notation of modern symbolic logic for those with no prior courses the structure of material follows that of quine s methods of logic and may be used as an introduction to that work with sections on truth functional logic predicate logic relational logic and identity and description exercises are based on problems designed by authors including quine john cooley richard jeffrey and lewis carroll annotation copyrighted by book news inc portland or

understand logic is a comprehensive introduction to this fascinating though sometimes challenging subject as well as looking at logic in theoretical terms the book considers its everyday uses and demonstrates how it has genuine practical applications it will take you step by step through the most difficult concepts and is packed with exercises to help you consolidate your learning at every stage covering

everything from syllogistic logic to logical paradoxes and even looking at logic in alice in wonderland this is the only guide you will ever need

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

in lively and readable prose arthur presents a new approach to the study of logic one that seeks to integrate methods of argument analysis developed in modern informal logic with natural deduction techniques the dry bones of logic are given flesh by unusual attention to the history of the subject from pythagoras the stoics and indian buddhist logic through lewis carroll venn and boole to russell frege and monty python a previous edition of this book appeared under the title natural deduction this new edition adds clarifications of the notions of explanation validity and formal validity a more detailed discussion of derivation strategies and another rule of inference reiteration

for more than six decades and for thousands of students introduction to logic has been the gold standard in introductory logic texts in this fifteenth edition carl cohen and victor rodych update irving m copi s classic text improving on its many strengths and introducing new and helpful material that will greatly assist both students and instructors in particular chapters 1 8 and 9 have been greatly enhanced without disturbing the book s clear and gradual pedagogical approach specifically chapter 1 now uses a simpler and better definition of deductive validity which enhances the rest of the book especially chapters 1 and 8 10 and their new components chapter 8 now has simpler

definitions of simple statement and compound statement more and more detailed examples of the complete truth table method chapter 9 now has a detailed step by step account of the shorter truth table method with detailed step by step examples for conclusions of different types a more complete and detailed account of indirect proof a detailed justification for indirect proof treating each of the three distinct ways in which an argument can be valid a new section on conditional proof which complements the 19 rules of inference and indirect proof explications of proofs of tautologies using both indirect proof and conditional proof a new section at the end of the chapter explaining the important difference between sound and demonstrative arguments the appendices now include a new appendix on making the shorter truth table technique sttt more efficient by selecting the most efficient sequence of sttt steps a new appendix on step 1 calculations for multiple line shorter truth tables a new appendix on unforced truth value assignments invalid arguments and maxims iii v in addition a companion website will offer for students a proof checker complete truth table exercises shorter truth table exercises a truth table video venn diagram testing of syllogisms hundreds of true false and multiple choice questions for instructors an instructor s manual a solutions manual routledge com cw 9781138500860

an introductory logic textbook the art of reasoning 5e shows students how logic can be applied to everyday life in each chapter uses real world examples to explain core concepts and includes a new chapter on the cognitive biases and errors students are most likely to encounter in their own thinking

although the two volumes of logic language and meaning can be used independently of one another together they provide a comprehensive overview of modern logic as it is used as a tool in the analysis of natural language both volumes provide exercises and their solutions volume 1 introduction to logic begins with a historical overview and then offers a thorough introduction to standard propositional and first order predicate logic it provides both a syntactic and a semantic approach to inference and validity and discusses their relationship although language and meaning receive special attention this introduction is also accessible to those with a more general interest in logic in addition the volume contains a survey of such topics as definite descriptions restricted quantification second order logic and many valued logic the

pragmatic approach to non truthconditional and conventional implicatures are also discussed finally the relation between logic and formal syntax is treated and the notions of rewrite rule automation grammatical complexity and language hierarchy are explained

meaning and argument is a popular introduction to philosophy of logic and philosophy of language offers a distinctive philosophical rather than mathematical approach to logic concentrates on symbolization and works out all the technical logic with truth tables instead of derivations incorporates the insights of half a century s work in philosophy and linguistics on anaphora by peter geach gareth evans hans kamp and irene heim among others contains numerous exercises and a corresponding answer key an extensive appendix allows readers to explore subjects that go beyond what is usually covered in an introductory logic course updated edition includes over a dozen new problem sets and revisions throughout features an accompanying website at ruccs rutgers edu logic meaningargument html

george wilhelm friedrich hegel has seldom been considered a major figure in the history of logic his two texts on logic both called the science of logic both written in hegel s characteristically dense and obscure language are often considered more as works of metaphysics than logic but in this highly readable book john burbidge sets out to reclaim hegel s science of logic as logic and to get right at the heart of hegel s thought burbidge examines the way hegel moves from concept to concept through every chapter of his work and traces the origins of hegel s effort to think through the way thought thinks to plato kant and fichte having established the framework of hegel s logical thought burbidge demonstrates how hegel organized the rest of his system including the philosophy of nature philosophy of spirit and his lectures on world history art religion and philosophy a final section discusses english language interpretations of hegel s logic from the nineteenth through twentieth centuries burbidge s the logic of hegel s logic is written with an eye to the reader of general interests avoiding as much as possible the use of hegel s technical vocabulary it is an excellent introduction to an otherwise very difficult text and has recently appeared in an iranian translation

an introductory logic textbook aimed at community college students

while there are already several well known textbooks on mathematical logic this book is unique in treating the material in a concise and streamlined fashion this allows many important topics to be covered in a one semester course although the book is intended for use as a graduate text the first three chapters can be understood by undergraduates interested in mathematical logic the remaining chapters contain material on logic programming for computer scientists model theory recursion theory godel s incompleteness theorems and applications of mathematical logic philosophical and foundational problems of mathematics are discussed throughout the text

this book is a gentle but rigorous introduction to formal logic it is intended primarily for use at the college level however it can also be used for advanced secondary school students and it can be used at the start of graduate school for those who have not yet seen the material the approach to teaching logic used here emerged from more than 20 years of teaching logic to students at stanford university and from teaching logic to tens of thousands of others via online courses on the world wide the approach differs from that taken by other books in logic in two essential ways one having to do with content the other with form like many other books on logic this one covers logical syntax and semantics and proof theory plus induction however unlike other books this book begins with herbrand semantics rather than the more traditional tarskian semantics this approach makes the material considerably easier for students to understand and leaves them with a deeper understanding of what logic is all about in addition to this text there are online exercises with automated grading online logic tools and applications online videos of lectures and an online forum for discussion they are available at logic stanford edu intrologic

unsurpassed for its clarity conciseness and comprehensiveness hurley s market leading a concise introduction to logic has established itself as the standard for introductory logic classes hailed in the first eight editions for an unwavering commitment to lucid focused reader friendly presentations of logic s basic topics the latest edition also continues to expand upon hurley s tradition of technological excellence with the introduction of vmentor and ilrn logic these two technologies help you manage the workload of teaching logic by providing your students with a live online logic tutoring service and you with an online system that automates homework and test grading in addition hurley s outstanding learning logic an interactive audio visual recasting of the entire text remains a free supplement with each copy of the text

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