

# The Logic Book

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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

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 coplans 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 books 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 instructors manual a solutions manual routledge com cw 9781138500860

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

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

provides an essential introduction to classical logic

this book reclaims logic as a branch of philosophy offering a self contained and complete introduction to the three traditional systems of classical logic

term sentence and predicate logic and the philosophical issues that surround those systems the exposition is lucid clear and engaging practical methods are favored over the traditional and creative approaches over the merely mechanical the author's guiding principle is to introduce classical logic in an intellectually honest way and not to shy away from difficulties and controversies where they arise relevant philosophical issues such as the relation between the meaning and the referent of a proper name logical versus metaphysical possibility and the conceptual content of an expression are discussed throughout in this way the book is not only an introduction to the three main systems of classical logic but also an introduction to the philosophy of classical logic

clear focus on its application of formal logic to ordinary english is the most distinctive feature of this textbook for the introductory course in deductive logic great care is taken with the appropriate translation into logical languages of ordinary english sentences evaluation of these translations promotes a more effective use of ordinary language the principles of deductive logic presents symbolic logic in a fuller and more leisurely fashion than other introductory textbooks early chapters cover informal material including definition and informal fallacies the remainder of the text is devoted to the treatment of four distinct artificial languages the categorical language is the language of syllogistic logic the extended categorical language enriches this first language with the symbolic connectives for conjunction and negation the propositional connective language and the first order language with identity are the two basic languages of modern logic each language is accompanied by a deductive system and is used as an instrument for exploring ordinary language including ordinary arguments the book contains a large number of exercises whose answers are supplied in the back of the book and many more that can be assigned as homework a solution's manual is available to instructors upon their request the request must be written on college or university letterhead

this book is a development of ideas regarding the nature of logical theory that were first presented in studies in logical theory that were somewhat expanded in essays in experimental logic and were briefly summarized with special reference to education in how we think pref

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logic is often perceived as having little to do with the rest of philosophy and even less to do with real life graham priest explores the philosophical roots of the subject explaining how modern formal logic addresses many issues

logic the basics is a hands on introduction to the philosophically alive field of logical inquiry covering both classical and non classical theories it presents some of the core notions of logic such as validity basic connectives identity free logic and more this book introduces some basic ideas of logic from a semantic and philosophical perspective uses logical consequence as the focal concept throughout considers some of the controversies and rival logics that make for such a lively field this accessible guide includes chapter summaries and suggestions for further reading as well as exercises and sample answers throughout it is an ideal introduction for those new to the study of logic as well as those seeking to gain the competence and skills needed to move to

more advanced work in logic

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