

The Logic Book

ELEMENTARY LOGIC REV ED P *Introduction to Logic* *The Logic Book* *Logic: A Complete Introduction: Teach Yourself* *A Concise Introduction to Logic* *Pure Logic* *Hand-book of Logic* *Essentials of Logic* *A Logic Book* *Logic* *A Beginner's Guide to Mathematical Logic* *Introduction to Logic* *Principles of Deductive Logic* *Introduction to Logic* *A Manual of Logic* *An Introduction to Logical Theory* *Logic in the Wild* *Logic* *The American Year Book* *Classical Logic and Its Rabbit Holes* W. V. QUINE *Irving M. Copi* *Merrie Bergmann* *Siu-Fan Lee* *Patrick Hurley* *William Stanley Jevons* *John James Tigert* *Irving Copi* *Robert M. Johnson* *Nicholas J.J. Smith* *Raymond M. Smullyan* *Harry J. Gensler* *Irving M. Copi* *James Welton* *Aladdin M. Yaqub* *Patrick Girard* *J. C. Beall* *Nelson P. Lande*
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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

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

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

unparalleled for its clarity conciseness and comprehensiveness. Hurley's market-leading, 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. Rounded out with a book companion website that features student quizzing and interactive tutorials on Venn diagrams and truth tables, Hurley's *A Concise Introduction to Logic* Ninth Edition is not only the most logically sound choice that a professor could make for his or her logic course but the most technologically sound choice as well. Important notice: Media content referenced within the product description or the product text may not be available in the eBook version.

rendered from the 11th edition of Copi-Cohen *Introduction to Logic*, the most respected introductory logic book on the market, this concise version presents a simplified yet rigorous introduction to the study of logic. It covers all major topics and approaches using a three-part organization that outlines specific topics under logic and language, deduction and induction, for individuals intrigued by the formal study of logic.

Unwavering in its fundamental commitment to today's students and their typical inexperience in rigorous logical analysis, Robert Johnson's *A Logic Book* is unparalleled in its ability to make logic simple if not entertaining. After two chapters on basic concepts—argument, deductive validity, inductive strength, truth of premises—the text presents two different deductive systems: categorical logic and truth-functional logic. A chapter on formal deduction is then followed by chapters on inductive logic and informal fallacies. The book culminates in a clear presentation of a strategy for evaluating lengthy arguments filled with timely examples and exercises drawn from popular culture. This book is an invitation to logic for even the most apprehensive students.

Provides an essential introduction to classical logic.

Written by a creative master of mathematical logic, this introductory text combines stories of great philosophers, quotations and riddles, with the fundamentals of mathematical logic. Author Raymond Smullyan offers clear, incremental presentations of difficult logic concepts. He highlights each subject with inventive explanations and unique problems. Smullyan's accessible narrative provides memorable examples of concepts related to proofs, propositional logic and first order logic, incompleteness theorems and incompleteness proofs. Additional topics include undecidability, combinatoric logic and recursion theory.

suitable for undergraduate and graduate courses this book will also amuse and enlighten mathematically minded readers dover 2014 original publication see every dover book in print at doverpublications com

introduction to logic combines likely the broadest scope of any logic textbook available with clear concise writing and interesting examples and arguments its key features all retained in the second edition include simpler ways to test arguments than those available in competing textbooks including the star test for syllogisms a wide scope of materials making it suitable for introductory logic courses as the primary text or intermediate classes as the primary or supplementary book engaging and easy to understand examples and arguments drawn from everyday life as well as from the great philosophers a suitability for self study and for preparation for standardized tests like the lsat a reasonable price a third of the cost of many competitors exercises that correspond to the logicola program which may be downloaded for free from the web this second edition also arranges chapters in a more useful way for students starting with the easiest material and then gradually increasing in difficulty provides an even broader scope with new chapters on the history of logic deviant logic and the philosophy of logic expands the section on informal fallacies includes a more exhaustive index and a new appendix on suggested further readings updates the logicola instructional program which is now more visually attractive as well as easier to download install update and use

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 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

is logic a good tool for making decisions can it make us better listeners and help us find coherence in views that we disagree with is sherlock holmes actually good at logic patrick girard addresses these and other questions by presenting logic as the guardian of coherence logic girard argues finds coherence in the patterns of reasoning across science religion and everyday decision making it helps communities engage safely by replacing contentious debates with shared constructive reasoning logic provides neutral ground for the healthy pursuit of common goals and interests logic in the wild employs common sense language eschewing technical jargon symbols and equations girard s attention focuses on logic s power to find what unites the complex and the simple the abstract and the concrete the theoretical and the practical in treating logic not as a passive subject to learn but as an active discipline to engage with logic in the wild teaches us to identify patterns in our own reasoning which inevitably helps us better confront questions central to everyday life

logic the basics is an accessible introduction to several core areas of logic the first part of the book features a self contained introduction to the standard topics in classical logic

many students ask what is the point of learning formal logic this book gives them the answer using the methods of deductive logic nelson lande introduces each new element in exquisite detail as he takes students through example after example proof after proof explaining the thinking behind each concept shaded areas and appendices throughout the book provide explanations and justifications that go beyond the main text challenging those students who wish to delve deeper and giving instructors the option of confining their course to the basics or expanding it when they wish to more rigorous levels lande encourages students to think for themselves while at the same time providing them with the level of explanation they need to succeed it is a rigorous approach presented in a style that is informal engaging and accessible students will come away with a solid understanding of formal logic and why it is not only important but also interesting and sometimes even fun it is a text that brings the human element back into the teaching of logic hans halvorson princeton university

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Introduction

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