

Introduction: Logic?

- We will study
 - Propositional Logic (PL)
 - First-Order Logic (FOL)
- Logic
 - is the study of the logic relationships between objects and
 - forms the basis of all mathematical reasoning and all automated reasoning

Introduction To Logic

Wolfgang Guggemos



Introduction To Logic:

Introduction to Logic Irving M. Copi, Carl Cohen, Victor Rodych, 2018-09-03 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 www.routledge.com/cw/9781138500860

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systems of propositional calculus and predicate calculus using both the axiomatic method and the method of natural deduction It provides a self contained introduction but for those who intend to study the subject further it contains many suggestions and a sound basis for more advanced study **An Introduction to Logic** Horace William Brindley Joseph,1906

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