

DONALD W. LOVELAND,  
RICHARD E. HODEL,  
AND S. G. STERRETT

# THREE VIEWS OF LOGIC:

Mathematics, Philosophy,  
and Computer Science



None

$$F(a,0) = G(a)$$

$$F(a,b+1) = H(a,b,F(a,b))$$

Both

$$\frac{A \vee B, \neg A \vee C}{B \vee C}$$

# Three Views Of Logic Mathematics Philosophy And Computer Science

**Zhe Xu**

## **Three Views Of Logic Mathematics Philosophy And Computer Science:**

**Three Views of Logic** Donald W. Loveland, Richard Hodel, S. G. Sterrett, 2014-01-26 The first interdisciplinary textbook to introduce students to three critical areas in applied logic. Demonstrating the different roles that logic plays in the disciplines of computer science, mathematics, and philosophy, this concise undergraduate textbook covers select topics from three different areas of logic: proof theory, computability theory, and nonclassical logic. The book balances accessibility, breadth, and rigor, and is designed so that its materials will fit into a single semester. Its distinctive presentation of traditional logic material will enhance readers' capabilities and mathematical maturity. The proof theory portion presents classical propositional logic and first order logic using a computer-oriented resolution formal system. Linear resolution and its connection to the programming language Prolog are also treated. The computability component offers a machine model and mathematical model for computation; proves the equivalence of the two approaches; and includes famous decision problems unsolvable by an algorithm. The section on nonclassical logic discusses the shortcomings of classical logic in its treatment of implication and an alternate approach that improves upon it. Anderson and Belnap's relevance logic Applications are included in each section. The material on a four-valued semantics for relevance logic is presented in textbook form for the first time. Aimed at upper-level undergraduates of moderate analytical background, *Three Views of Logic* will be useful in a variety of classroom settings. Gives an exceptionally broad view of logic. Treats traditional logic in a modern format. Presents relevance logic with applications. Provides an ideal text for a variety of one-semester upper-level undergraduate courses.

*Three Views of Logic (ARC)* Donald W. Loveland, Three Views of Logic: Mathematics, Philosophy, and Computer Science. Donald W. Loveland, Richard E. Hodel, S. G. Sterrett. Cloth, January 2014. 495 pp. ISBN 9780691160443. \$34.95. 10 line illus. 10 tables.

Demonstrating the different roles that logic plays in the disciplines of computer science, mathematics, and philosophy, this concise undergraduate textbook covers select topics from three different areas of logic: proof theory, computability theory, and nonclassical logic. The book balances accessibility, breadth, and rigor, and is designed so that its materials will fit into

**Modern Logic 1850-1950, East and West** Francine F. Abeles, Mark E. Fuller, 2016-05-26 This book presents diverse topics in mathematical logic such as proof theory, meta mathematics, and applications of logic to mathematical structures. The collection spans the first 100 years of modern logic and is dedicated to the memory of Irving Anellis, founder of the journal *Modern Logic* whose academic work was essential in promoting the algebraic tradition of logic as represented by Charles Sanders Peirce. Anellis's association with the Russian logic community introduced their school of logic to a wider audience in the USA, Canada, and Western Europe. In addition, the collection takes a historical perspective on proof theory and the development of logic and mathematics in Eastern Logic, the Soviet Union, and Russia. The book will be of interest to historians and philosophers in logic and mathematics and the more specialized papers will also appeal to mathematicians and logicians.

**Philosophical Perceptions on Logic and Order** Horne, Jeremy, 2017-05-19 Strong reasoning skills are an important

aspect to cultivate in life as they directly impact decision making on a daily basis By examining the different ways the world views logic and order new methods and techniques can be employed to help expand on this skill further in the future Philosophical Perceptions on Logic and Order is a pivotal scholarly resource that discusses the evolution of logical reasoning and future applications for these types of processes Highlighting relevant topics including logic patterns deductive logic and inductive logic this publication is an ideal reference source for academicians students and researchers that would like to expand their understanding of how society currently employs the use of logical reasoning techniques **Sets, Logic and Maths for Computing** David Makinson,2020-05-19 This easy to understand textbook introduces the mathematical language and problem solving tools essential to anyone wishing to enter the world of computer and information sciences Specifically designed for the student who is intimidated by mathematics the book offers a concise treatment in an engaging style The thoroughly revised third edition features a new chapter on relevance sensitivity in logical reasoning and many additional explanations on points that students find puzzling including the rationale for various shorthand ways of speaking and abuses of language that are convenient but can give rise to misunderstandings Solutions are now also provided for all exercises Topics and features presents an intuitive approach emphasizing how finite mathematics supplies a valuable language for thinking about computation discusses sets and the mathematical objects built with them such as relations and functions as well as recursion and induction introduces core topics of mathematics including combinatorics and finite probability along with the structures known as trees examines propositional and quantificational logic how to build complex proofs from simple ones and how to ensure relevance in logic addresses questions that students find puzzling but may have difficulty articulating through entertaining conversations between Alice and the Mad Hatter provides an extensive set of solved exercises throughout the text This clearly written textbook offers invaluable guidance to students beginning an undergraduate degree in computer science The coverage is also suitable for courses on formal methods offered to those studying mathematics philosophy linguistics economics and political science Assuming only minimal mathematical background it is ideal for both the classroom and independent study

**Eliminating The Universe: Logical Properties Of Natural Language** Edward L Keenan,2018-07-09 This book synthesizes the author's work 1980s 2015 on the logical expressive power of natural language It extends the tools and concepts of model theory as used in higher order predicate logic to the study of natural language semantics It focuses on boolean structure generalized quantification separated from variable binding covering some cases of anaphora Different categories predicates adjective quantifiers are modeled by non isomorphic boolean lattices Of empirical linguistic interest is the expressibility of many natural classes of quantifiers defined in terms of their logical automorphism invariant properties Some of these correlate with classes used syntactically in generative grammar In other cases we find general possibly universal constraints on possible quantifier denotations in natural language Also of novel logical interest are entailment paradigms that depend on relations between pairs or triples of generalized quantifier denoting expressions ones

that are in some cases inherently vague In addition we note novel binary quantifiers that lie beyond the Frege boundary in that they are provably not identical to any iterated application of unary quantifiers Of philosophical interest is the existence of models which make the same sentences true as standard models but which lack a universe and hence seemingly a notion of reference Moreover these models generalize to ones in which we can represent some intensional expressions without the use of novel ontological objects such as possible worlds or propositions *Alasdair Urquhart on Nonclassical and Algebraic Logic and Complexity of Proofs* Ivo Düntsch, Edwin Mares, 2021-09-24 This book is dedicated to the work of Alasdair Urquhart The book starts out with an introduction to and an overview of Urquhart's work and an autobiographical essay by Urquhart This introductory section is followed by papers on algebraic logic and lattice theory papers on the complexity of proofs and papers on philosophical logic and history of logic The final section of the book contains a response to the papers by Urquhart Alasdair Urquhart has made extremely important contributions to a variety of fields in logic He produced some of the earliest work on the semantics of relevant logic He provided the undecidability of the logics R of relevant implication and E of relevant entailment as well as some of their close neighbors He proved that interpolation fails in some of those systems Urquhart has done very important work in complexity theory both about the complexity of proofs in classical and some nonclassical logics In pure algebra he has produced a representation theorem for lattices and some rather beautiful duality theorems In addition he has done important work in the history of logic especially on Bertrand Russell including editing Volume four of Russell's Collected Papers *Paraconsistency and Deontic Logic* Casey Neil McGinnis, 2007 *Proceedings of the National Science Council, Republic of China*, 1996 *The Bulletin of Symbolic Logic*, 2008 *From the Logical Point of View*, 1994 *Internationale Zeitschrift für wissenschaftliche Synthese*, 1974 *Mathematical Reviews*, 2001 *Catalog Issue* University of Colorado, 1974 *The New Encyclopaedia Britannica: Micropaedia (10 v.)*, 1983 *Whitaker's Cumulative Book List*, 1978 *Stanford Bulletin*, 2002 *British Books in Print*, 1985 *The Philosopher's Index*, 2006 Vols for 1969 include a section of abstracts *The New Encyclopaedia Britannica*, 1974

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