An Introduction to Formal Logic

This book treats symbolization, formal semantics, and proof theory for each language. The discussion of formal semantics is more direct than in many introductory texts. Although forall x does not contain proofs of soundness and completeness, it lays the groundwork for understanding why these are things that need to be proven. The book highlights the choices involved in developing sentential and predicate logic. Students should realize that these two are not the only possible formal languages. In translating to a formal language, we simplify and profit in clarity. The simplification comes at a cost, and different formal languages are suited to translating different parts of natural language.

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logic

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Introductions to Logic in Logic and Philosophy of Logic
Predicate Logic in Logic and Philosophy of Logic
Propositional Logic in Logic and Philosophy of Logic
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contain proofs of soundness and completeness, it lays the groundwork for understanding why these are things that need to be proven. Contents: What is logic? Sentential logic Truth tables Quanti ed logic Formal semantics Proofs Other symbolic notation Solutions to selected exercises. No claim to the material licensed as Creative Commons CC BY-SA 3.0. Forallx, An Introduction to Formal Logic, by P.D. Magnus, available on-line at http://www.fecundity.com/logic. is offered under a Creative Commons license (Attribution-ShareAlike 3.0), https://creativecommons.org/licenses/by-sa/3.0/. Changes were not made to the original material. Richard Zach. Fall 2020. forall x: Calgary. An Introduction to Formal Logic. By P. D. Magnus Tim Button. with additions by J. Robert Loftis Robert Trueman remixed and revised by Aaron Thomas-Bolduc. Formal logic is of course a central sub-discipline of philosophy, where the logical relationship of assumptions to conclusions reached from them is important. Philosophers investigate the consequences of definitions and assumptions and evaluate these definitions and assumptions on the basis of their consequences. It is also important in mathematics and computer science. In mathematics, formal languages are used to describe not "every-. vi. PREFACE.