Scope of the Journal

The Annals of Mathematical Logic publishes longer papers and short monographs on topics of current interest in Mathematical Logic and the Foundations of Mathematics. Papers devoted to topics in related fields such as Automata Theory are also accepted, provided that they contain material relevant to Mathematical Logic and the Foundations of Mathematics.

Many important papers are being written today which are too long to be published promptly in the existing journals but too short to form a separate book. Therefore the journal serves as an intermediate between the existing journals in the above-mentioned fields and the series "Studies in Logic and the Foundations of Mathematics", which is predominantly devoted to longer books. The Council of the Association for Symbolic Logic passed a resolution in which it agreed that the journal should be published under the auspices of the Association.

The editors work in close contact with the editors of "The Journal of Symbolic Logic" and of the series "Studies in Logic and the Foundations of Mathematics".
Propositional logic is a mathematical system for reasoning about propositions and how they relate to one another. Every statement in propositional logic consists of propositional variables combined via propositional connectives. Each variable represents some proposition, such as *You liked it* or *You should have put a ring on it*. Connectives encode how propositions are related, such as *If you liked it, then you should have put a ring on it*. Propositional Variables. Read *p or q*. $p \lor q$ is true if at least one of $p$ or $q$ are true (inclusive OR). Also called logical disjunction. Truth Tables. A truth table is a table showing the truth value of a propositional logic formula as a function of its inputs. Useful for several reasons: Formally defining what a connective means. Publishes research papers on Mathematical Logic. Contributions from related areas are welcome. Addresses logicians and mathematicians, computer scientists, and philosophers interested in the applications of mathematical logic. 92% of authors who answered a survey reported that they would definitely publish or probably publish in the journal again. Journal information. Managing Editor.

Introduction to Mathematical Logic (Discrete Mathematics and Its Applications). Elliott Mendelson. 3.4 out of 5 stars. There are many fine books on mathematical logic, but Mendelson's textbook remains a sure choice for a first course for its clear explanations and organization: definitions, examples and results fit together in a harmonic way, making the book a pleasure to read. The book is especially suitable for self-study, with a wealth of exercises to test the reader's understanding.