



Propositional Logic

In this chapter, we introduce propositional logic, an algebra whose original purpose, dating back to Aristotle, was to model reasoning. In more recent times, this algebra, like many algebras, has proved useful as a design tool. For example, Chapter 13 shows how propositional logic can be used in computer circuit design. A third use of logic is as a data model for programming languages and systems, such as the language Prolog. Many systems for reasoning by computer, including theorem provers, program verifiers, and applications in the field of artificial intelligence, have been implemented in logic-based programming languages. These languages generally use “predicate logic,” a more powerful form of logic that extends the capabilities of propositional logic. We shall meet predicate logic in Chapter 14.

❖ 12.1 What This Chapter Is About

Boolean algebra

Section 12.2 gives an intuitive explanation of what propositional logic is, and why it is useful. The next section, 12.3, introduces an algebra for logical expressions with Boolean-valued operands and with logical operators such as **AND**, **OR**, and **NOT** that operate on Boolean (true/false) values. This algebra is often called *Boolean algebra* after George Boole, the logician who first framed logic as an algebra. We then learn the following ideas.

- Truth tables are a useful way to represent the meaning of an expression in logic (Section 12.4).
- We can convert a truth table to a logical expression for the same logical function (Section 12.5).
- The Karnaugh map is a useful tabular technique for simplifying logical expressions (Section 12.6).
- There is a rich set of “tautologies,” or algebraic laws that can be applied to logical expressions (Sections 12.7 and 12.8).

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Howard Pospesel



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Travaux présentés par la délégation roumaine au 12e Congrès international d'hygiène du travail, Helsinki 1-6 juillet 1957 ,1957 A Proof Editor for Propositional Temporal Logic Ross Casley,Stanford University. Computer Science Department,1986 *Predicate Logic* L. Epstein Richard,2012-03-01 An analysis of meaning and truth provides a foundation for studying modern propositional and predicate logics Chapters on propositional logic parsing propositions and meaning truth and reference give a basis for criteria that can be used to judge formalizations of ordinary language arguments *Predicate Logic* Howard Pospesel,1976 **I. On Weak Completeness of Intuitionistic Predicate Logic (by G. Kreisel). II. Analysis of Beth's Semantic Construction of Intuitionistic Logic (by V.H. Dyson and G. Kreisel). III. Note on Completeness and Definability (by G. Kreisel).** Stanford University. Applied Mathematics and Statistics Laboratory,V. H. Dyson,G. Kreisel,1961

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