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**Sinopsis**

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In an admirably succinct form, this volume offers a historical view of the development of the calculus of logic, illustrating its beauty, symmetry, and simplicity from an algebraic perspective. Topics include the two interpretations of the logical calculus; the principles of identity and the syllogism; the principles of simplification and composition; the laws of tautology and of absorption; the distributive law and the laws of duality, double negation, and contraposition; and the postulate of existence. Additional subjects include the formulas of De Morgan and Poretsky; Schröder's theorem; sums and products of functions; solution of equations involving one and several unknown quantities; the problem of Boole; the laws of forms, consequences, and causes; the geometrical diagrams of Venn; tables of consequences and causes; and formulas peculiar to the calculus of propositions.