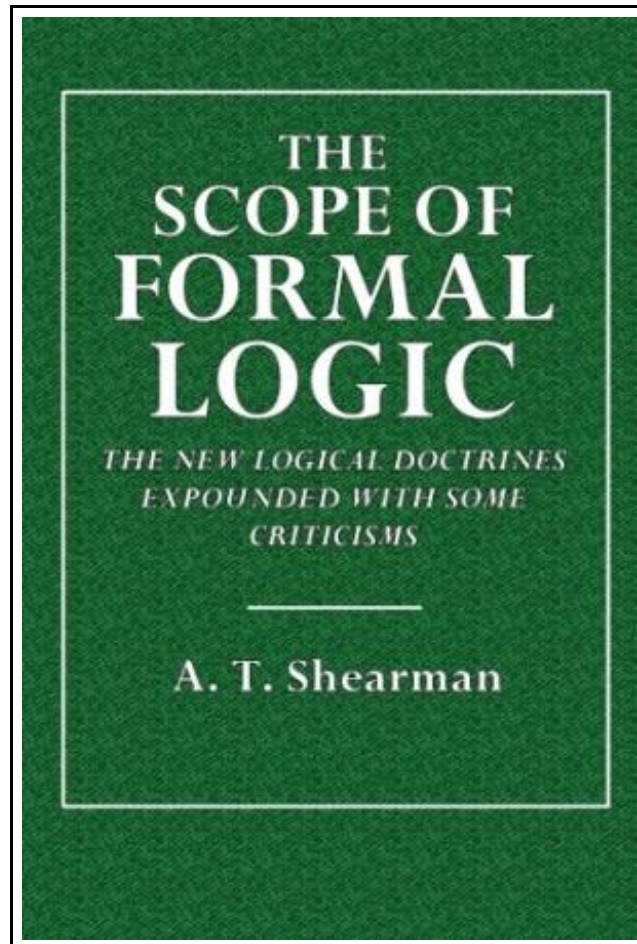


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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The present gives a brief exposition of the logical work of Frege, Peano, and Bertrand Russell. For by Formal Logic Mr. Shearman means here what has been variously designated by the names symbolic logic, mathematical logic, algebra of logic, symbol logic (Mrs. Ladd-Franklin), logistic (Couturat). This kind of logic has not yet found its fitting name; but it is making history. The purpose of The Scope of Formal Logic is to convince the reader of the importance of the work in this field, and, without presupposing any familiarity with the writings of Frege, Peano, Russell, to lead the uninitiated to these fountain-heads of modern logical thought. In the first chapter a number of important terms, such as propositional function, variable, etc., are elucidated. In the second chapter Frege's, Peano's, and Russell's symbols, or at least some of the more frequent among them, are explained by translating several propositions, some simple, some more complex, from their symbolic statements into English. This is continued in the third chapter which exhibits the methods of proof in Formal Logic. Chapter IV. is devoted to a treatment, by means of these symbolic methods, of opposition, conversion, syllogism, etc., t. e., the usual subject-matter of ordinary logic. Chapter V. shows (1) that arithmetical notions and processes may be replaced by logical notions and processes, (2) that geometrical notions and processes may be similarly replaced, and (3) that general logic ought. for scientific purposes, or to enable us to reach conclusions that have always been supported by common sense, to be regarded as lying at the basis of pure mathematics (p. 130). The remaining two chapters are given over to a philosophical...



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