

GEORGE BOOLE

THE MATHEMATICAL ANALYSIS OF LOGIC

Being an Essay Towards a Calculus
of Deductive Reasoning



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The Mathematical Analysis Of Logic

Marcel A. Müller



The Mathematical Analysis Of Logic:

The Mathematical Analysis of Logic George Boole, 1847 **The Mathematical Analysis of Logic** George Boole, 2014-08-07 This Is A New Release Of The Original 1847 Edition [The Mathematical Analysis of Logic](#) George Boole, 2021-10-25 With this work George Boole ushered in the digital age **The Mathematical Analysis of Logic** George Boole, 2014-12-11 The Theory of Symbolical Algebra are aware that the validity of the processes of analysis does not depend upon the interpretation of the symbols which are employed but solely upon the laws of their combination Every system of interpretation which does not affect the truth of the relations supposed is equally admissible and it is thus that the same process may under one scheme of interpretation represent the solution of a question on the properties of numbers under another that of a geometrical problem and under a third that of a problem of dynamics or optics This principle is indeed of fundamental importance and it may with safety be affirmed that the recent advances of pure analysis have been much assisted by the influence which it has exerted in directing the current of investigation But the full recognition of the consequences of this important doctrine has been in some measure retarded by accidental circumstances It has happened in every known form of analysis that the elements to be determined have been conceived as measurable by comparison with some fixed standard The predominant idea has been that of magnitude or more strictly of numerical ratio The expression of magnitude or of operations upon magnitude has been the express object for which the symbols of Analysis have been invented and for which their laws have been investigated Thus the abstractions of the modern Analysis not less than the ostensive diagrams of the ancient Geometry have encouraged the notion that Mathematics are essentially as well as actually the Science of Magnitude The consideration of that view which has already been stated as embodying the true principle of the Algebra of Symbols would however lead us to infer that this conclusion is by no means necessary If every existing interpretation is shown to involve the idea of magnitude it is only by induction that we can assert that no other interpretation is possible And it may be doubted whether our experience is sufficient to render such an induction legitimate The history of pure Analysis is it may be said too recent to permit us to set limits to the extent of its applications Should we grant to the inference a high degree of probability we might still and with reason maintain the sufficiency of the definition to which the principle already stated would lead us We might justly assign it as the definitive character of a true Calculus that it is a method resting upon the employment of Symbols whose laws of combination are known and general and whose results admit of a consistent interpretation That to the existing forms of Analysis a quantitative interpretation is assigned is the result of the circumstances by which those forms were determined and is not to be construed into a universal condition of Analysis It is upon the foundation of this general principle that I purpose to establish the Calculus of Logic and that I claim for it a place among the acknowledged forms of Mathematical Analysis regardless that in its object and in its instruments it must at present stand alone That which renders Logic possible is the existence in our minds of general notions our ability to conceive

of a class and to designate its individual members by a common name The theory of Logic is thus intimately connected with that of Language A successful attempt to Express logical propositions by symbols the laws of whose combinations should be founded upon the laws of the mental processes which they represent would so far be a step toward a philosophical language

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influential paper in early invariant theory He received a medal from the Royal Society for his 1844 work On A General Method of Analysis It was a contribution to the theory of linear differential equations moving from the case of constant coefficients on which he had already published to variable coefficients In 1847 Boole published The Mathematical Analysis of Logic the first of his works on symbolic logic We are delighted to publish this classic book as part of our extensive Classic Library collection Many of the books in our collection have been out of print for decades and therefore have not been accessible to the general public The aim of our publishing program is to facilitate rapid access to this vast reservoir of literature and our view is that this is a significant literary work which deserves to be brought back into print after many decades The contents of the vast majority of titles in the Classic Library have been scanned from the original works To ensure a high quality product each title has been meticulously hand curated by our staff Our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work We hope that you will enjoy this wonderful classic work and that for you it becomes an enriching experience

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