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THE MATHEMATICAL ANALYSIS OF LOGIC

BEING AN ESSAY TOWARDS
A CALCULUS OF DEDUCTIVE
REASONING

GEORGE BOOLE

*All Ys are Xs,
No Zs are Ys,*

$$y = vx$$

$$0 = zy$$

$$0 = vzx$$

∴ Some Ys are not Zs

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The Mathematical Analysis Of Logic

Studies



The Mathematical Analysis Of Logic:

The Mathematical Analysis of Logic George Boole, 1847 *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

The Mathematical Analysis of Logic George Boole, 2009-07-20 In *The Mathematical Analysis of Logic* mathematician George Boole persuasively argues that logic should be aligned with mathematics not philosophy

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, *The Mathematical Analysis of Logic* is a foundational 19th century work by George Boole

first published in 1847 It s one of the earliest attempts to apply mathematical methods to logic laying the groundwork for what would later become symbolic logic Boolean algebra and ultimately much of modern computer science and digital logic design Equations of Logic Logical relations can be written as equations e g $xy = 0$ $xy = 0$ means A and B are mutually exclusive Symbolic Manipulation Logical conclusions can be deduced by manipulating symbols just as in algebra Syllogisms in Algebraic Form Boole translated traditional syllogisms e g All A are B into algebraic equations for systematic analysis

Partial Use of Binary Principles He hinted that logical symbols could take only two values true false though the binary nature was made clearer in his 1854 book **Logic** George Boole, 2015-11-03 George Boole was an English mathematician and logician He worked in the fields of differential equations and algebraic logic Boolean logic once described as 0 and 1 logic is credited with laying the foundations for the information age In 1841 Boole published an 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

The Mathematical Analysis of Logic George Boole, 2018-08-12 *The Mathematical Analysis of Logic* Large Print By George Boole George Boole was an English mathematician and logician He worked in the fields of differential equations and algebraic logic Boolean logic once described as 0 and 1 logic is credited with laying the foundations for the information age In 1841 Boole published an 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

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An Investigation of the Laws of Thought , on which are Founded the Mathematical Theories of Logic and Probabilities ,1854 **The Mathematical Analysis of Logic** Frank Hyneman Knight,1965 [Aristotle's Syllogism and the Creation of Modern Logic](#) Lukas M. Verburgt,Matteo Cosci,2023-01-26 Offering a bold new vision on the history of modern logic Lukas M Verburgt and Matteo Cosci focus on the lasting impact of Aristotle s syllogism between the 1820s and 1930s For over two millennia deductive logic was the syllogism and syllogism was the yardstick of sound human reasoning During the 19th century this hegemony fell apart and logicians including Boole Frege and Peirce took deductive logic far beyond its Aristotelian borders However contrary to common wisdom reflections on syllogism were also instrumental to the creation of new logical developments such as first order logic and early set theory This volume presents the period under discussion as one of both tradition and innovation both continuity and discontinuity Modern logic broke away from the syllogistic tradition but without Aristotle s syllogism modern logic would not have been born A vital follow up to *The Aftermath of Syllogism* this book traces the longue dur e history of syllogism from Richard Whately s revival of formal logic in the 1820s through the work of David Hilbert and the G ttingen school up to the 1930s Bringing together a group of major international experts it sheds crucial new light on the emergence of modern logic and the roots of analytic philosophy in the 19th and early 20th centuries *Studies in the History of Statistical Method* Helen Mary Walker,1929 [An Investigation of the Laws of Thought](#) George Boole,1854

Studies in logic. By members of the Johns Hopkins university Studies,1883 [A Boole Anthology](#) James Gasser,2000-09-30 Modern mathematical logic would not exist without the analytical tools first developed by George Boole in *The Mathematical Analysis of Logic and The Laws of Thought* The influence of the Boolean school on the development of logic always recognised but long underestimated has recently become a major research topic This collection is the first anthology of works on Boole It contains two works published in 1865 the year of Boole s death but never reprinted as well as several classic studies of recent decades and ten original contributions appearing here for the first time From the programme of the English Algebraic School to Boole s use of operator methods from the problem of interpretability to that of psychologism a full range of issues is covered *The Boole Anthology* is indispensable to Boole studies and will remain so for years to come **Proceedings of the Aristotelian Society for the Systematic Study of Philosophy** Aristotelian Society (Great Britain),1902 List of members in each volume

Tha Mathematical Analysis Of Logic Book Review: Unveiling the Power of Words

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