STUDIES IN THE NINETEENTH-CENTURY HISTORY OF ALGEBRAIC LOGIC
AND UNIVERSAL ALGEBRA:

A SECONDARY BIBLIOGRAPHY

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INTRODUCTION

The following excerpts appeared in the *Lincolnshire Echo*, April 22, 1922 and were reprinted in *The British Society for the History of Mathematics Newsletter*, no. 20 (Summer 1992), p. 12:

A professor of mathematics has attacked the City Council for not highlighting one of Lincoln's most famous sons.

Professor David Singmaster, of South Bank Polytechnic, in London, said he couldn't find any information about Lincoln-born mathematician George Boole on a recent visit.

"Boole's work is far more influential and widely known than that of Lincoln area's other famous son, Lord Tennyson," he said.

"I would like to suggest that Lincoln and Lincolnshire should take more pride in having produced and supported Boole. It is truly remarkable that the county produced two of the half-dozen major English mathematicians." ...

City tourism chief Trevor Rook today pledged to do more to highlight Lincoln's historic heritage.

The move comes after London academic Professor David Singmaster criticised Lincoln for not making more of one of its most famous sons, mathematician George Boole.

Coun Rook said: "I absolutely agree with everything the professor is saying." ...

Coun Rook has now launched a campaign to get the city's unsung heroes recognized.

"My personal hero, Lawrence of Arabia, used to live at what is now Brown's Pie Shop on Steep Hill," he said.

The compilers hope that this bibliography will help logicians and mathematicians to familiarize themselves with the work of Boole and his colleagues, and their intellectual heirs and successors and with earlier studies of their work in logic and universal algebra by making available a guide to the secondary literature of the subject. Many of the works listed here are readily available in most good academic libraries, but often in locations which researchers might not ordinarily think to search. Much of the vast recent secondary literature on Charles Peirce's work in algebraic logic and relation algebras, for example, and even studies of Benjamin Peirce's linear associative algebra, have been undertaken by philosophers specializing in the history of logic and appear in philosophy journals and widely scattered anthologies of philosophy.

A case could be made for the origin of algebraic logic with the work
of Leibniz in his efforts to work out a *calculus ratiocinator*. However,
Leibniz's work of developing syllogistic on an algebraic model was
sketchy and tentative at best. Leibniz's followers Jacob and Johann
Bernoulli likewise noted and elaborated what they called a
"parallelism" between logic and algebra in their "Parallelismus rati-
ocinii logici et algebraici," first published in Basel in 1685. A genera-
tion later, this theme was taken up by M. Busch in his book *Anfangs-
gründe der logischen Algebra*, published in Tübingen by Cotta in 1768.
Algebraic logic as we have come to know it, however, began only with
the work of George Boole and his colleagues. The historical roots of
Boole's work lay in the efforts of such British mathematicians of the
second decade of the nineteenth century as George Peacock and mem-
bers of the "Analytical Society." The efforts of these mathematicians
were directed towards the development of what they called "symbolic
algebra" or "symbolical algebra." They were inspired by Lagrange's ef-
forts to treat the difficulties of differential calculus and took up his goal
of transforming calculus into an algebraic form which did not begin from
such vague concepts as "limit" and "infinitely small." The work of
Peacock and his colleagues may be seen as the root of algebraic logic,
universal algebra, and linear and multilinear algebra. The efforts by
Peacock and his colleagues in symbolic analysis were carried on by
Boole, for example in his work on differential calculus and were directly
connected with Boole's work in algebraic logic as a calculus which
would have several interpretations and uses, for example as a class cal-
culus for dealing with syllogisms, as a calculus of finite differences
(Boole's *A Treatise of the Calculus of Finite Differences* was published
by Cambridge University Press in 1860), and as a calculus of algebraic
invariants (Boole's work on algebraic invariants, published in the
Cambridge Mathematical Journal in 1841 and 1842 launched the subject
and set Cayley on his research path). In the nineteenth century, Boole,
De Morgan, Jevons, Peirce, and Schröder were the most prominent
workers in algebraic logic. Throughout the nineteenth century, these
three fields affected each other at various levels, as may be seen from
the work for example of Charles Peirce or in Whitehead's *Treatise on
Universal Algebra*, even though, by the middle of the century, they were
clearly distinct and separate areas of research. The work begun by
Peacock, Hamilton, Babbage, their colleagues and successors through

the nineteenth century was collected and summarized by Alfred North Whitehead in his famous *Treatise on Universal Algebra* of 1898. By this time, of course, a new trend had begun in the development of mathematical logic, the logistic or so-called "quantification-theoretical" approach — which, from the standpoint of the work of Frege and Russell, might better be called the "function-theoretic" approach. This new approach did not attain predominance until the beginning of the second decade of the twentieth century, when the algebraic and quantification-theoretical approaches to logic may be said to have been united by Whitehead and Russell in the *Principia Mathematica*. In some sense, the history of algebraic logic can be said to be the history of logic in the nineteenth century from Boole and De Morgan to Whitehead. The development of logic and its interactions with universal algebra is the historical subject of our bibliography, with a central focus on algebraic logic and universal algebra.

This bibliography lists all the nineteenth and twentieth century secondary materials on the history of algebraic logic (03Gxx), universal algebra (08Bxx) and closely related topics, including in particular lattice theory (06-xx), known to the compilers up to the time of printing. Also included are secondary studies on such areas as linear and multilinear algebras (15-xx) and what in the early nineteenth century such British algebraists as George Peacock and Charles Babbage called "symbolical algebra." The principle of selection in the latter case was to include studies concerning the work of such researchers as Peacock and Babbage, Benjamin Peirce, James Joseph Sylvester, Arthur Cayley, and Hermann Grassmann since their work significantly influenced the direction of the logical researches of such men as Charles Peirce and Alfred North Whitehead. We exclude studies of researchers such as Camille Jordan, despite the fact that the work of such researchers as Jordan, although relating to linear and multilinear algebra, is not known to have had any significant influence on Peirce, Schröder or any of their colleagues working in algebraic logic. Thus, for example, we do not include Т.Д. Тарановская, *Теория определителей в работах русских математиков XIX века»* (T.D. Taranovskaia, *The theory of determinants in the work of Russian mathematicians of the 19th century*), from История и методология естественных наук 37, Математика-механика (1989), 130–138, which discusses work unknown to logicians

outside of Russia, but we do include Н.В. Александрова & В.М. Трупанова, *О понятии линрйной независимости* (N.V. Aleksandrova & V.M. Trupanova, *On the concept of linear independence, ibid,* pp. 3–10), since it discusses the work of Grassmann and W.R. Hamilton, among others. Also included are a number of general studies which provide a view of the historical-sociological background for the work of the algebraists considered. Also included are studies on Dedekind's work on ideal theory that more properly belong to a bibliography on field theory (12-xx) or on commutative rings and algebras (13-xx) such as, for example, his work on Galois theory (12F10; 13B05); but since there was interplay between Dedekind's work in general abstract algebra and his work on lattice theory, with his work on ideal theory (06B10; 13A15), as a kind of unifying thread, some of these studies have been included. Also included are a small number of secondary studies presenting a more general history of mathematical logic, especially those studies concerned with work at the turn of the century through the first decade of the twentieth century. They may provide some perspective on the nature of the developing relationships between algebraic logic and the new quantification-theoretical logic being created by Peano, Frege, and Russell, or on the attitudes which the algebraists and the quantification-theorists held towards each other's work at that time.

We anticipate that the bibliography is likely to put to diverse uses as a reference tool by researchers of various different interests. As a result, some of the materials listed will be primarily philosophical or even biographical rather than mathematical. We make no claims for the completeness of our bibliography. For the sake of brevity, in particular, we have as a rule excluded general histories of logic or of algebra, unless those histories give special consideration to work in algebraic logic or universal algebra and closely related topics.

A precautionary note in another direction is also required on the completeness of this reference. It has not always been a simple matter to distinguish between primary and secondary literature. For example, reviews, discussions and commentaries on the work of contemporaries by some of the logicians whose work is the subject of this bibliographic tool can as readily be regarded as much oroginal research as secondary discussion of the work of others. We have attempted to operate the principle that an expository survey of one's own work or of the work of

one's contemporaries which is not primarily or essentially an original research contrbution is in general to be treated as a secondary study. Contrariwise, studies which develop, apply, modify, or expand upon ideas originally presented by nineteenth-century logicians but which are themselves primarily and essentially original contributions to research have in principle been treated as primary rather than secondary studies and have generally been excluded from the the bibliography on those grounds. It should however be said that these choices and distinctions have not always been completely straightforward or obvious. In those cases, decisions for inclusion or exclusion were made on the basis of direct consideration of the individual items rather than from any easily defined inflexible principles when these items were available for direct inspection.

AMS (MOS) 1980 subject classifications are given for most titles to help identify the primary subjects of materials, which may not always be clear from the title. AMS (MOS) classifications are omitted, however, for some book reviews and for materials which the compilers have not directly seen and were therefore unable to ascertain the exact nature of the subject-matter. In addition, items listed in Church's (*1984*) bibliography are identified by "Church pews" (⌘), followed by their numerical designation in Church's bibliography. Materials in the bibliography marked "T" which would not otherwise have been included were taken from the unpublished "file schroede.tex," compiled and copyrighted by Christian Thiel (Erlangen), courtesy of Dr. Thiel. Dr. Thiel's compilation will be published either in *History and Philosophy of Logic* or in a special volume of recent Schröder studies.

The compilers wish to thank several historians of mathematics for their assistance, including in particular Maurizio Ferriani, Benjamin S. Hawkins, Jr., Daniel D. Merrill, Emily Michael, and James W. Van Evra.

Honorably dedicated to Alonzo Church in gratitude for his pioneering work in formulating the *Bibliography of Symbolic Logic* and establishing the reviews section of the *Journal of Symbolic Logic.*

We hope to continue to keep this bibliography as useful and as up-to-date as possible, with the expectation that revised editions will appear at regular intervals in the future. We therefore encourage readers to forward any corrections that might come to their attention and to submit bibliograaphical information on new materials which can be added for these future editions. An electronic version of this bibliography is also available.

ABBREVIATIONS

Abstracts AMS	=	Abstracts of Papers Presented to the American Mathematical Society
AHES	=	Archive for History of the Exact Sciences
AMM	=	American Mathematical Monthly
Ann. Sci.	=	Annals of Science
Bull. AMS	=	Bulletin of the American Mathematical Society
BJHS	=	British Journal of the History of Science
CSHPM/SCHPM	=	Canadian Society for History and Philosophy of Mathematics/Société Canadienne d'Histoire et Philosophie des Mathématiques
HM	=	Historia Mathematica
HPL	=	History and Philosophy of Logic
ИМЕН	=	История и методология естественных наук
ИМИ	=	Историко-математические исследования
JDMV	=	Jahresbericht der Deutschen Mathematiker-Vereinigung
JFM	=	Jahrbuch über die Fortschritte der Mathematik
JSL	=	Journal of Symbolic Logic
ML	=	Modern Logic
NDJFL	=	Notre Dame Journal of Formal Logic
PAS	=	Proceedings of the Aristotelian Society
PRI	=	Proceedings of the Royal Irish Academy
RMM	=	Revue de métaphysique et de morale
TPS	=	Transactions of the Charles S. Peirce Society

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