

THE
JOURNAL
OF
SYMBOLIC LOGIC

EDITED BY

ALONZO CHURCH

C. H. LANGFORD

Managing Editor: C. A. BAYLIS

Consulting Editors:

PAUL BERNAYS

EVERETT J. NELSON

PAUL HENLE

RÓZSA PÉTER

S. C. KLEENE

W. V. QUINE

SUSANNE K. LANGER

BARKLEY ROSSER

ERNEST NAGEL

ALFRED TARSKI

VOLUME 2

1937

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC.

WITH THE AID OF SUBVENTIONS FROM

BROWN UNIVERSITY

PRINCETON UNIVERSITY

HARVARD UNIVERSITY

SMITH COLLEGE

INSTITUTE FOR ADVANCED STUDY

UNIVERSITY OF MICHIGAN

Copyright 1937 by the Association for Symbolic Logic, Inc.

Reproduction by photostat, photo-print, microfilm, or like process by permission only

THE
JOURNAL
OF
SYMBOLIC LOGIC

EDITED BY

ALONZO CHURCH

C. H. LANGFORD

Managing Editor: C. A. BAYLIS

Consulting Editors:

PAUL BERNAYS

EVERETT J. NELSON

PAUL HENLE

RÓZSA PÉTER

S. C. KLEENE

W. V. QUINE

SUSANNE K. LANGER

BARKLEY ROSSER

ERNEST NAGEL

ALFRED TARSKI

VOLUME 2

1937

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC.

WITH THE AID OF SUBVENTIONS FROM

BROWN UNIVERSITY

HARVARD UNIVERSITY

INSTITUTE FOR ADVANCED STUDY

PRINCETON UNIVERSITY

SMITH COLLEGE

UNIVERSITY OF MICHIGAN

The four numbers of Volume 2 were issued at the following dates:

Number 1, May 25, 1937.

Number 2, September 1, 1937.

Number 3, October 13, 1937.

Number 4, December, 1937.

TABLE OF CONTENTS

Ueber eine abgeschwaechte Fassung des Auswahlaxioms. By A. FRAENKEL	1
On the use of dots as brackets in logical expressions. By H. B. CURRY. . . .	26
The theory of classes. A modification of von Neumann's system. By RAPHAEL M. ROBINSON.	29
Reviews.	37
Second meeting of the Association for Symbolic Logic. By SUSANNE K. LANGER.	63
Abstracts of papers.	63
Elections.	64
Additions to 1936 membership list.	64
A system of axiomatic set theory—Part I. By PAUL BERNAYS.	65
Deducibility with respect to necessary and impossible propositions. By ARNOLD F. EMCH.	78
Reviews.	82
Notice of a meeting of the Association.	96
A purely topological form of non-Aristotelian logic. By CARL G. HEMPEL	97
On derivability. By W. V. QUINE.	113
On Cantor's theorem. By W. V. QUINE.	120
Modal functions in two-valued logic. By FREDERIC B. FITCH.	125
Gödel theorems for non-constructive logics. By BARKLEY ROSSER.	129
Reviews.	138
Logic based on inclusion and abstraction. By W. V. QUINE.	145
Computability and λ -definability. By A. M. TURING.	153
The ρ -function in λ - K -conversion. By A. M. TURING.	164
Remark on Nicod's reduction of <i>Principia mathematica</i> . By B. A. BERN- STEIN.	165
Reviews.	167
Institutional contributing subscribers to the JOURNAL.	177
List of officers and members of the Association for Symbolic Logic.	178
Index of reviews.	183