

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

W. V. QUINE

S. C. KLEENE

BARKLEY ROSSER

SUSANNE K. LANGER

ALFRED TARSKI

VOLUME I

1936

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC.

WITH THE AID OF SUBVENTIONS FROM

BROWN UNIVERSITY

HARVARD UNIVERSITY

INSTITUTE FOR ADVANCED STUDY

UNIVERSITY OF ROCHESTER

PRINCETON UNIVERSITY

SMITH COLLEGE

UNIVERSITY OF MICHIGAN

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

W. V. QUINE

S. C. KLEENE

BARKLEY ROSSER

SUSANNE K. LANGER

ALFRED TARSKI

VOLUME I

1936

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

UNIVERSITY OF ROCHESTER

The four numbers of Volume 1 were issued at the following dates:

Number 1, May 9, 1936.

Number 2, August 28, 1936.

Number 3, November 18, 1936.

Number 4, March 30, 1937.

Number 4 is copyrighted 1937 by the Association for Symbolic Logic, Inc.

Reprinted 1983

TABLE OF CONTENTS

A statement of policy.....	1
Toward a calculus of concepts. By W. V. QUINE.....	2
Implication and deducibility. By ARNOLD F. EMCH.....	26
Constructibility as a criterion for existence. By BARKLEY ROSSER.....	36
A note on the Entscheidungsproblem. By ALONZO CHURCH.....	40
Reviews.....	42
Notice of a meeting of the Association.....	44
Set-theoretic foundations for logic. By W. V. QUINE.....	45
Addendum to the article <i>Implication and deducibility</i> . By ARNOLD F. EMCH.	58
Abstracts of papers.....	59
Reviews.....	63
Emch's calculus and strict implication. By C. I. LEWIS.....	77
Extensions of some theorems of Gödel and Church. By BARKLEY ROSSER	87
A system of formal logic without an analogue to the Curry <i>W</i> operator. By FREDERIC BRENTON FITCH.....	92
Correction to <i>A note on the Entscheidungsproblem</i> . By ALONZO CHURCH...	101
Finite combinatory processes—formulation 1. By EMIL L. POST.....	103
List of officers and members of the Association for Symbolic Logic.....	106
Institutional contributing subscribers.....	110
Reviews.....	111
The first meeting of the Association for Symbolic Logic. By PAUL WEISS.	120
Preliminary announcement of a meeting of the Association.....	120
A bibliography of symbolic logic. By ALONZO CHURCH.....	121
Author index (to bibliography).....	217

ERRATA

- Page 5, line 33. Interchange α and β .
- Page 31, last line. For =, read =.
- Page 33, footnote 7. For «require», read «requires».
- Page 36, footnote 3. For «*Institutionismus*», read «*Intuitionismus*».
- Page 44, line 12. For «variable», read «variables».
- Page 56, line 21. For second \subset , read \supset .
- Page 69, line 25. For «ROGERS», read «ROGER».
- Page 73, line 2. For comma, put semicolon.
- Page 73, line 11. For «Event», read «Even».
- Page 94, line 10. For «then $\vdash p$ », read «then $\vdash q$ ».
- Page 94, line 12. For $Mp(Mpq)$, read $Mp(Mqp)$.
- Page 95, line 13. For «and T_1 », read «make T_1 ».
- Page 95, line 14. For «if of», read «is of».
- Page 97, line 4. For $B_{n_{m-1}+1}p_m$, read $B_{n_{m-1}+1}p_m p_{m-1}$.
- Page 97, line 6. For p_{1n_1} , read q_{1n_1} .
- Page 97, line 25. For $B_{n_{m-1}+1}y_m$, read $B_{n_{m-1}+1}y_m y_{m-1}$.
- Page 107, line 7 from bottom. For «Parkvaeget», read «Parkvænget».
- Page 166, entry 185J. For «pp. 189–196», read «pp. 181–196».
- Page 169, line 17 from bottom. Delete the cross reference.
- Page 187, entry 2886. Supply quotation mark at end.
- Page 194, line 10 from bottom. For « a », read « \hat{a} ».
- Page 198, entry 355I. For « cz_i », read « $czci$ ».
- Page 199. Delete the entry 3662.
- Page 202, entry 385I. For «*telbarheidspraedicaten*», read «*telbaarheidspraedicaten*».
- Page 204, entry 403I. For «*matematycznje*», read «*matematycznej*».
- Page 205, entry 407I. For «pp. 1–21», read «pp. 30–50».
- Page 206, line 19. For «Sätze», read «Sätze».
- Page 209, entry 443Z. For «alternative», read «successive».