

THE
JOURNAL
OF
SYMBOLIC LOGIC

EDITED BY

ALONZO CHURCH C. H. LANGFORD

Managing Editor: C. A. BAYLIS

Consulting Editors:

PAUL BERNAYS	ERNEST NAGEL
PAUL HENLE	EVERETT J. NELSON
S. C. KLEENE	RÓZSA PÉTER
SUSANNE K. LANGER	W. V. QUINE
SAUNDERS MAC LANE	BARKLEY ROSSER

ALFRED TARSKI

VOLUME 3

1938

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC.
WITH THE AID OF SUBVENTIONS FROM
BROWN UNIVERSITY INSTITUTE FOR ADVANCED STUDY
DUKE UNIVERSITY PRINCETON UNIVERSITY
HARVARD UNIVERSITY SMITH COLLEGE
UNIVERSITY OF MICHIGAN

Copyright 1938 by the Association for Symbolic Logic, Inc.

THE JOURNAL OF SYMBOLIC LOGIC (ISSN print: 0022-4812, ISSN online: 1943-5886) is published quarterly, in the months of March, June, September, and December, by the Association for Symbolic Logic, Inc., 124 Raymond Avenue, Poughkeepsie, NY 12604-0001, USA. Periodicals postage is paid at Poughkeepsie NY and at additional mailing offices. The JOURNAL is distributed with THE BULLETIN OF SYMBOLIC LOGIC. The 2011 annual subscription price for the two journals, in either print or electronic form, is US\$615; visit <http://www.aslonline.org/Journals-subscription.html> for more information. **Postmaster:** Send address changes to *The Journal of Symbolic Logic, c/o American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA*. Business correspondence should be sent to the Secretary-Treasurer of the Association, Charles Steinhorn (address on inside back cover).

The BULLETIN, the JOURNAL, and the REVIEW OF SYMBOLIC LOGIC are the official organs of the Association for Symbolic Logic, an international organization for furthering research in symbolic logic and the exchange of ideas among mathematicians, philosophers, computer scientists, linguists, and others interested in this field.

The JOURNAL invites submission of original scholarly work in mathematical logic and its applications.

Continued on inside back cover

10 9 8 7 6 5 4 3 16 15 14 13 12 11

THE
JOURNAL
OF
SYMBOLIC LOGIC

EDITED BY

ALONZO CHURCH C. H. LANGFORD

Managing Editor: C. A. BAYLIS

Consulting Editors:

PAUL BERNAYS	ERNEST NAGEL
PAUL HENLE	EVERETT J. NELSON
S. C. KLEENE	RÓZSA PÉTER
SUSANNE K. LANGER	W. V. QUINE
SAUNDERS MAC LANE	BARKLEY ROSSER

ALFRED TARSKI

VOLUME 3

1938

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC.
WITH THE AID OF SUBVENTIONS FROM
BROWN UNIVERSITY INSTITUTE FOR ADVANCED STUDY
DUKE UNIVERSITY PRINCETON UNIVERSITY
HARVARD UNIVERSITY SMITH COLLEGE
UNIVERSITY OF MICHIGAN

The four numbers of Volume 3 were issued at the following dates:


Number 1, March 23, 1938.

Number 2, June 30, 1938.

Number 3. October 6, 1938.

Number 4, January, 1939.

Number 4 is copyrighted 1939 by the Association for Symbolic Logic, Inc.

The paper used in this reprint is acid-free and falls within the guidelines
established to ensure permanence and durability. 

10 9 8 7 6 5 4 3 16 15 14 13 12 11

TABLE OF CONTENTS

New foundation of formal metamathematics. By L. CHWISTEK and W. HETPER.....		1
Completeness of the propositional calculus. By W. V. QUINE.....		37
Reviews.....		41
Third meeting of the Association for Symbolic Logic. By S. C. KLEENE..		59
Abstracts of papers.....		59
Elections.....		60
Ein Verfahren der mathematischen Logik. By JÓZEF PEPIS.....		61
On finite and infinite modal systems. By C. WEST CHURCHMAN.....		77
Reviews.....		83
Notice of a meeting of the Association.....		96
The name relation and the logical antinomies. By K. REACH.....		97
Corrections to <i>Canonical expressions in Boolean algebra</i> . By ARCHIE BLAKE.....		112
Reviews.....		114
On the theory of types. By W. V. QUINE.....		125
The consistency of the ramified <i>Principia</i> . By FREDERIC B. FITCH.....		140
On notation for ordinal numbers. By S. C. KLEENE.....		150
Reviews.....		156
The Fifth International Congress for the Unity of Science (announcement).....		171
Institutional contributing subscribers to the JOURNAL.....		172
List of officers and members of the Association for Symbolic Logic.....		173
Additions and corrections to <i>A bibliography of symbolic logic</i> . By ALONZO CHURCH.....		178
Index of subjects.....		193
Index of reviews.....		204
Index of authors.....		206