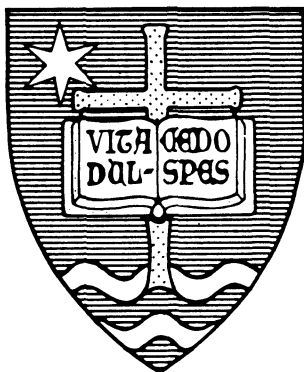


NOTRE DAME JOURNAL OF FORMAL LOGIC

VOLUME XX, NUMBER 2

APRIL 1979



PUBLISHED QUARTERLY BY THE
UNIVERSITY OF NOTRE DAME, NOTRE DAME, INDIANA

NOTRE DAME JOURNAL OF FORMAL LOGIC

Founded by Bolesław Sobociński

V. Frederick Rickey, *Editor-in-Chief*

Michele Daugherty, *Business Manager*

VOLUME XX, NUMBER 2, APRIL 1979

CONTENTS

α -naming and α -speedup theorems. By <i>Barry E. Jacobs</i>	241
A binary Sheffer operator which does the work of quantifiers and sentential connectives. By <i>Robert B. Brandom</i>	262
An alternative semantics for knowledge. By <i>Gregory Mellema</i>	265
Does quotation sometimes permit substitution. By <i>William G. Lycan</i>	279
The ancestral relation without classes. By <i>Kenneth G. Lucey</i>	281
Geach on atomicity and singular propositions. By <i>J. David Wald</i>	285
Copi's method of deduction. By <i>Frederick A. Johnson</i>	295
Another way of diagramming switching circuits. By <i>James F. Zartman</i>	301
A note on Kripke's distinction between rigid designators and non-rigid designators. By <i>Sitansu S. Chakravarti</i>	309
Classes of universal decision elements using negative substitutions. By <i>J. C. Muzio</i> . .	314
An extended joint consistency theorem for free logic with equality. By <i>Raymond D. Gumb</i>	321
Necessary truth as analyticity, and the eliminability of monadic <i>De Re</i> formulas. By <i>Thomas Schwartz</i>	336
Presupposition: An alternative approach. By <i>B. L. Bunch</i>	341
Admissible sets and recursive equivalence types. By <i>Carl E. Bredlau</i>	355
A formal interpretation of Łukasiewicz's logics. By <i>Michael Byrd</i>	366
R-mingle and beneath. Extensions of the Routley-Meyer semantics for R . By <i>J. Michael Dunn</i>	369
Sentential notations: Unique decomposition. By <i>Jordan Howard Sobel</i>	377
Material implication, confirmation, and counterfactuals. By <i>Robert J. Farrell</i>	383
Point monads and <i>P</i> -closed spaces. By <i>Robert A. Herrmann</i>	395
Local and global operators and many-valued modal logics. By <i>Charles G. Morgan</i> . . .	401
A simple defense of material implication. By <i>Lee C. Archie</i>	412
The approaches to set theory. By <i>John Lake</i>	415
The decidability of one-variable propositional calculi. By <i>M. D. Gladstone</i>	438
A model-theoretic account of confirmation. By <i>John Paulos</i>	451
Łukasiewicz's twin possibility functors. By <i>Stanley J. Krolkoski</i>	458
A deduction theorem for rejection theses in Łukasiewicz's system of modal logic. By <i>Stanley J. Krolkoski</i>	461

Notre Dame Journal of Formal Logic is published quarterly by the University of Notre Dame in January, April, July and October of each year. The Journal is composed by Beljan, Dexter, Michigan and printed by Cushing-Malloy, Inc., Ann Arbor, Michigan. Second-class postage paid at Notre Dame, Indiana 46556.

Two copies of manuscripts being submitted and all editorial correspondence should be sent to *V. Frederick Rickey, Editor-in-Chief, P.O. Box 5, Notre Dame, Indiana 46556, U.S.A.* Authors should consult the "Guide to Authors" for editorial information (inserted in this issue).

Subscriptions are \$27.50 per year for institutions and \$20.00 for individuals. Back volumes are \$20.00 each for Volumes 1-10 and \$35.00 for Volumes 11-19. Orders for subscriptions and back volumes (accompanied by payment), and changes of address should be sent to the *Business Manager, P.O. Box 5, Notre Dame, Indiana 46556, U.S.A.*

Copyright © 1979 by the University of Notre Dame. All rights reserved.

Notre Dame Journal of Formal Logic ISSN 0029-4527