NOTRE DAME JOURNAL OF FORMAL LOGIC

VOLUME XX, NUMBER 1 JANUARY 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 1, JANUARY 1979

CONTENTS

Recursive equivalence types on recursive manifolds. By Leon W. Harkleroad	1
Extensional equivalence of simple and general utilitarian principles.	
By Donald E. Nute	32
Theory of objects and set theory: Introduction and semantics. By André Chauvin.	37
On unsolvability in subrecursive classes of predicates. By Forbes D. Lewis	55
Negation as a sign of negative judgment. By Kent Bendall	68
A general propositional logic of conditionals. By Scott K. Lehmann	77
Peirce on the nature of logic. By Frederick Michael and Emily Michael	84
Axiomatics for implication. By David Meredith	89
The principle of the division into four figures in traditional logic.	
By Demetrius J. Hadgopoulos	92
A simple generalization of Turing computability. By William J. Thomas	95
Modus tollens. By Richard Bosley	103
A shortened proof of Sobociński's theorem concerning a restricted rule of	
substitution in the field of propositional calculi. By Charles H. Lambros	112
Domain restrictions in standard deductive logic. By Peter Swiggart	115
Quantification, domains of discourse, and existence. By Thomas G. Nedzynski	130
The extended calculus of indications interpreted as a three-valued logic.	
By Francisco J. Varela	141
The possibility of a conditional logic. By James R. Bode	147
On the logic of "few", "many", and "most". By Philip L. Peterson	155
The axiomatization of theories of material necessity. By J. P. Cleave	180
Aristotle on predication: An analysis of Anal. Post. 83a. By Kwame Gyekye	191
Semi-monotone series of ordinals. By John L. Hickman	196
The completeness of Stoic propositional logic. By Ian Mueller	201
The binary representation of m-valued logic with applications to universal	
decision elements. By John Loader	216
Alternative axiomatizations of elementary probability theory.	
By William K. Goosens	227
Errata	240

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.