



VOLUME 28, NUMBER 2 APRIL 1987

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

## NOTRE DAME JOURNAL OF FORMAL LOGIC

*Editors:* Michael Detlefsen Kit Fine Mark E. Nadel Howard K. Wettstein Consulting Editors: Elliott Mendelson V. Frederick Rickey Paul Young

Business Manager: Michele Daugherty

Associate Editors: Ernest LePore Penelope Maddy

## VOLUME 28, NUMBER 2, APRIL 1987

## CONTENTS

The model logic of "all and only". By I. L. Humberstone 1	1 <b>77</b>
On defining sentential connectives. By Joseph Jurcic 1	89
Rudiments of a theory of reference. By Christopher S. Hill 2	200
Survey of generalizations of Urquhart semantics. By R. A. Bull 2	220
On <i>n</i> -equivalence of binary trees. By Kees Doets 2	238
Invertible definitions. By <i>Timothy Williamson</i> 2	244
Cantor-Bendixson spectra of $\omega$ -stable theories. By Carlo Toffalori	259
Maximal <i>P</i> -subgroups and the axiom of choice. By <i>Paul E. Howard and Mary Yorke</i>	276
Decision procedure for a class of $(L_{\omega_1\omega})_t$ -types of $T_3$ spaces. By Juan Carlos Martinez	284
Relatively diophantine correct models of arithmetic. By Bonnie Gold 2	291

Copyright © 1987 by the University of Notre Dame. All rights reserved. Coden: NDJFAM.

Notre Dame Journal of Formal Logic ...... (ISSN 0029-4527)

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, Ltd., Dexter, Michigan and printed by Cushing-Malloy, Inc., Ann Arbor, Michigan. Secondclass postage paid at Notre Dame, Indiana 46556.

Subscriptions are \$40.00 per year for institutions and \$20.00 for individuals. Back volumes are \$20.00 each for Volumes 1–10 and \$35.00 each for Volumes 11–27. 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.