

MODERN LOGIC

MODERN LOGIC

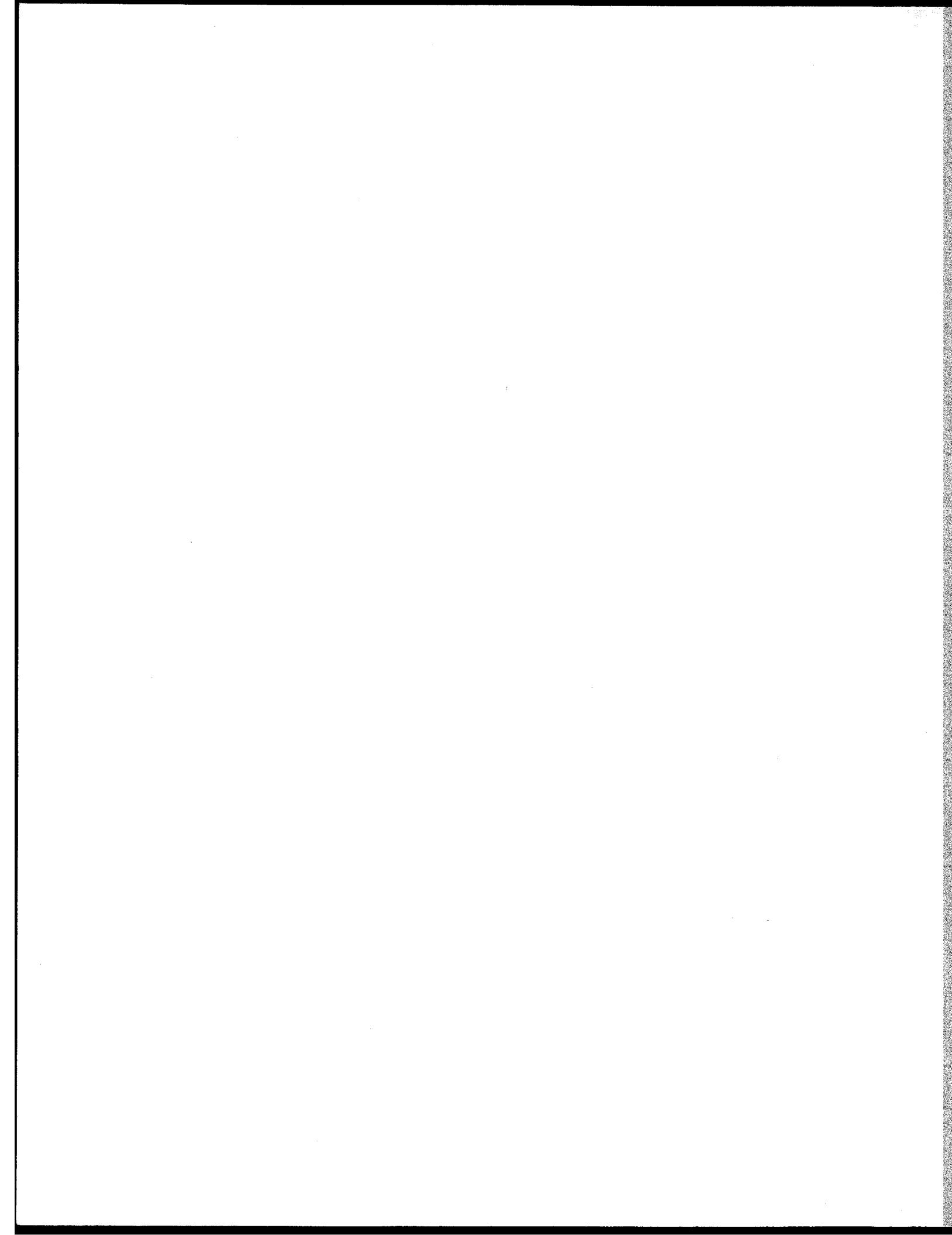
Vol. 4, no. 1

(January 1994)

Mathematical logic...is the modern form of logic developed in the last hundred years.
— Rudolf Carnap (1954)

Modern Logic Publishing — Irving H. Anellis, Editor & Publisher
Box 1036, Welch Avenue Station
Ames, Iowa 50014-1036, USA

ISSN 1047-5982



\aleph Modern Logic ω

International Journal of the History of Mathematical Logic, Set Theory, and
Foundations of Mathematics

Revue International d'Histoire de Logique Mathématique, Théorie des Ensembles et des
Fondements des Mathématiques

Internationale Zeitschrift für Geschichte der mathematischen Logik, Mengenlehre und
Grundlagen der Mathematik

Международный Журнал по Истории Математической Логики, Теории
Множеств и Оснований Математики

Rivista Internazionale di Storia della Logica Matematica, Teoria degli Insiemi e Fondamenti
di Matematica

Revista internacional de história de la lógica matemática, teoría de conjuntos y
fundamentos de las matemáticas

Volume 4, no. 1
(January 1994)

Modern Logic Publishing

(Member of COSMEP – The International Association of Independent Publishers)

Irving H. Anellis, Publisher; Henry Kormin, Executive Administrator

Box 1036, Welch Avenue Station
Ames, Iowa 50014 –1036, USA
tel.: 515 - 292-7499

e-mail: F1.MLP@ISUMVS (bitnet); F1.MLP@ISUMVS.IASTATE.EDU (internet);
America Online: ModLogic

Printed by Sigler Printing & Publishing
413 Northwestern Avenue, Ames, IA 50010-0887, USA

X Modern Logic ω

**International Journal of the History of Mathematical Logic, Set Theory,
and Foundations of Mathematics**

Subscriptions. Requests for information concerning subscriptions should be sent to: Subscriptions & Order Department, Modern Logic Publishing, Box 1036, Welch Avenue Station, Ames, IA 50014-1036, USA. Individuals residing in the countries which do not have convertible currency may inquire about Barter Exchange Subscriptions. Institutional subscribers may contact their journals subscription service. Subscriptions (current rates): Individuals – US\$36 per volume (add US\$20 per volume for air mail delivery outside the United States); Libraries/institutions: US\$100 per volume.

Published by Modern Logic Publishing, Dr. Irving H. Anellis, Editor & Publisher; Henry Kormin, Executive Administrator; Powell B. Mims, Editorial Assistant: Box 1036, Welch Avenue Station, Ames, IA 50014-1036, USA. Manufactured by Sigler Printing & Publishing, 413 Northwestern Avenue, Ames, IA 50010, USA.

© Modern Logic Publishing, 1994

vol. 4, no. 1
(January 1994)

ISSN 1047-5982

λ Modern Logic ω

International Journal of the History of Mathematical Logic, Set Theory,
and Foundations of Mathematics

EDITORIAL BOARD

EDITOR: Irving H. ANELLIS (Modern Logic Publishing, Box 1036, Welch Avenue Station, Ames, IA 50014-1036, USA; e-mail: f1.mlp@ISUMVS.bitnet; f1.mlp@ISUMVS.IASTATE.EDU; America Online: ModLogic) (English, Russian / General Logic and Foundations, Proof Theory, 20.-cent., Logic in the USSR; 03Bxx, 03Fxx)

CO-EDITOR: Thomas L. DRUCKER (Modern Logic Publishing, 304 South Hanover Street, Carlisle, PA 17013-3938, USA; fax: 717-258-0515) (English, French / Categorical Logic, Model Theory and Nonstandard Models; 03G30, 18B25, 03Cxx, 03Hxx)

ASSOCIATE EDITORS:

Francine F. ABELES (Department of Mathematics and Computer Science, Kean College SCNJ, Union, N.J. 07083, USA ; e-mail: fabeles@luau.kean.edu) (Reviews Editor)

Alexei G. BARABASHEV (Department of Philosophy and Methodology of Science, Room 451, Humanities Bldg. No. 1, Center for Social Sciences and Humanitarian Studies, Moscow University, Moscow, 119899 Russia; e-mail: alexei@ bar.srcc.msu.su; fax: (095) 939-5338) (Russian, English / Sociology, Pedagogy, Methodology and Philosophy of Logic, Philosophy of History of Foundations of Mathematics, Future Prospectives; 00A25, 01A67, 01A80, 03A05, 98-03)

Valentine A. BAZHANOV (Office of the Dean, School of Humanities, Ulyanovsk Branch of Moscow University, L. Tolstoy street 42, Ulyanovsk, 432700, Russia; e-mail: master@adm.univ.Simbirsk.Su) (Russian, English / Paraconsistent Logics, Modal Logics, Multiple-valued Logics, 19.-20. century Logic in Russia & USSR; 03B45, 03B50)

Leon HARKEROAD (1111 Hector Street, Ithaca, N.Y. 14850, USA; e-mail: leon@math.cornell.edu) (English, French, German, Hungarian / Recursion Theory, Fuzzy Sets; 03Dxx, 03E72, 04A72)

Sangmun KIM (Department of Mathematics, Yonsei University, Seoul, 120-749, Korea) (English, German / General Logic, Axiomatics and Foundations, Logic and History of Logic in Asia, Applications to Cognitive Science; 03Bxx, 03B80, 92Jxx, 94-xx, 01A25, 01A27, 01A29)

Volker PECKHAUS (Institut für Philosophie der Universität Erlangen-Nürnberg, Bismarckstraße 1, D-91054, Erlangen, Germany; email: Volker.V.Peckhaus@pc.philosophie.Uni-Erlangen.DBP.DE) (German, English / Algebraic Logic; 03Gxx)

Gellius N. POVAROV (Department of Cybernetics, Physical Engineering Institute, Kashirskoe Shosse, Bldg. 31, Moscow University, Moscow, 115409, Russia; fax: (095) 324-2111) (Russian, English, German, French, Spanish, Italian, Portuguese, Dutch, Hungarian / Programming Logic, Relay Circuits, Finite Automata; 03B70, 068N17, 68Qxx, 94C10)

Wim RUITENBURG (Department of Mathematics, Statistics & Computer Science, Marquette University, Milwaukee, WI 53233-2189, USA; e-mail: wimr@mscs.mu.edu) (English, Dutch, German, French / Constructive Logic & Mathematics, Intuitionism, Topos Theory, Constructive Algebra; 03F50, 03F55, 03F65; 03G30)

John C. SIMMS (Department of Mathematics, Statistics & Computer Science, Marquette University, Milwaukee, WI 53233-2189, USA; e-mail: johns@mscs.mu.edu) (English, German, French, Japanese / Set Theory; 03Exx, 04-xx)

ADVISORY BOARD: Evandro AGAZZI (ex officio), Boris V. BIRYUKOV, Nathan HOUSER, Christian THIEL

