

Princeton = Math

Finite Structures with Few Types

Gregory Cherlin and Ehud Hrushovski

This book applies model theoretic methods to the study of certain finite permutation groups, the automorphism groups of structures for a fixed finite language with a bounded number of orbits on 4-tuples.

Here Gregory Cherlin and Ehud Hrushovski treat the general case by developing analogs of the model theoretic methods of geometric stability theory. Their work lies at the juncture of permutation group theory, model theory, classical geometries, and combinatorics.

Annals of Mathematics Studies
Paper \$24.95 ISBN 0-691-11332-7

Infinity and the Mind

The Science and Philosophy of the Infinite

Rudy Rucker

Using cartoons, puzzles, and quotations to enliven his text, Rudy Rucker guides readers through such topics as the paradoxes of set theory, the possibilities of physical infinities, and the results of Gödel's incompleteness theorems.

"Rudy Rucker ... has continued the tradition ... of making mathematics and computer science accessible to the intellectually minded layperson.... *Infinity and the Mind* is funny, provocative, entertaining, and profound." —Joseph Shipman, *Journal of Symbolic Logic*

Paper \$22.95 ISBN 0-691-00172-3

Abraham Robinson
The Creation of Nonstandard Analysis,
A Personal and Mathematical Odyssey

Joseph Warren Dauben

With a foreword by Benoît B. Mandelbrot

"This masterpiece of scientific biography presents the eventful life and the pioneering work of a remarkable figure of twentieth-century pure and applied mathematics as well as symbolic logic.

[A] well-written and most carefully researched text [that is] enlightening and delightful to read."
—Detlef Laugwitz, *Mathematical Reviews*
Paper \$42.50 ISBN 0-691-05911-X

PRINCETON
University Press

●
800-777-4726 • READ EXCERPTS ONLINE
MATH.PUPPRESS.PRINCETON.EDU

M. Rathjen, <i>The superjump in Martin-Löf type theory</i> . Reviewed by Michael Möllerfeld	538
S. Feferman, <i>Computation on abstract data types</i> . Reviewed by Jeffery Zucker	538
S. Shelah and H. Woodin, <i>Large cardinals imply that every reasonably definable set of reals is Lebesgue measurable</i> . Reviewed by Joan Bagaria ..	543
D. Martin and J. Steel, <i>Iteration trees</i> . Reviewed by William Mitchell.....	545
Three publications by S. Jackson. Reviewed by Howard S. Becker	546
Two papers by I. Neeman and J. Zapletal on proper forcing and $L(\mathbb{R})$. Reviewed by Paul B. Larson	548
Four papers by J. Cummings, et al.. Reviewed by Arthur W. Apter	550
A. Blass, <i>Simple cardinal characteristics of the continuum</i> . Reviewed by Heike Mildenberger	552
Three papers by B. Balcar, et al.. Reviewed by Klaas Pieter Hart	554
Twelve papers by P. Dehornoy, R. Dougherty, T. Jech, R. Laver, and J. Steel. Reviewed by Aleš Drápal	555
 Index of reviews, Volumes 6–8, 2000–2002	561
Officers and Committees of the Association for Symbolic Logic	573
Members of the Association	577
Notices	630

Articles should be expository or survey papers of broad interest that are accessible to a wide audience of logicians. They may deal with any areas of logic including mathematical or philosophical logic, logic in computer science or linguistics, the history or philosophy of logic, and applications of logic to other fields.

Communications should be announcements of important new results and ideas in any aspect of logic; they may be short papers in their final form or preliminary announcements (extended abstracts, position papers) of longer, full papers that will be published elsewhere. In any case, they should include, in addition to a description of the new results or ideas, enough history, background, and explanation to make the significance of the work apparent to a wide audience. *Communications* will be quickly refereed and published within six months of the submission of final versions.

Articles should be submitted to *Akihiro Kanamori, Department of Mathematics, Boston University, Boston, MA 02215, USA* (aki@math.bu.edu); *Communications* may be submitted to the Managing Editor *Andreas R. Blass, Department of Mathematics, University of Michigan, Ann Arbor, MI 48109, USA* (ablass@umich.edu); or to any of the other editors: *John P. Burgess, Department of Philosophy, Princeton University, Princeton, NJ 08544, USA* (jburgess@pucc.princeton.edu); or *Matthew Foreman, Department of Mathematics, University of California, Irvine, CA 92697, USA* (mforeman@math.uci.edu); or *Manuel Lerman, Department of Mathematics, University of Connecticut, Storrs, CT 06269, USA* (mlerman@math.uconn.edu); or *H. Dugald Macpherson, Department of Pure Mathematics, University of Leeds, Leeds LS2 9JT, England* (pmtadm@amsta.leeds.ac.uk); or *Philip J. Scott, Department of Mathematics, University of Ottawa, 585 King Edward, Ottawa, Ontario, Canada K1N 6N5* (phil@csu.uottawa.ca).

Beginning with the 2003 volume, *Alasdair Urquhart* (urquhart@cs.toronto.edu) will be the Managing Editor of the reviews. Books for review in the BULLETIN should be sent to the *Association for Symbolic Logic, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, NY 12604, USA*. The other editors of reviews are *Geoffrey Hellman* (hellm001@umn.edu), *Thomas Jech* (jech@math.psu.edu), *Wolfram Pohlers* (pohlers@escher.uni-muenster.de), and *Philip Scowcroft* (pscowlcroft@wesleyan.edu).

(Continued on facing page.)



1079-8986(200212)8:4*;1-B