

## REVIEWS

The Association for Symbolic Logic publishes analytical reviews of selected books and articles in the field of symbolic logic. The reviews were published in *The Journal of Symbolic Logic* from the founding of the JOURNAL in 1936 until the end of 1999. The Association moved the reviews to this BULLETIN, beginning in 2000.

The Reviews Section is edited by Alasdair Urquhart (Managing Editor), Steve Awodey, John Baldwin, Lev Beklemishev, Anuj Dawar, Mirna Džamonja, David Evans, Erich Grädel, Denis Hirschfeldt, Hannes Leitgeb, Roger Maddux, Grigori Mints, and Volker Peckhaus. Authors and publishers are requested to send, for review, copies of books to *ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, NY 12604, USA*.

In a review, a reference “JSL XLIII 148,” for example, refers either to the publication reviewed on page 148 of volume 43 of the JOURNAL, or to the review itself (which contains full bibliographical information for the reviewed publication). Analogously, a reference “BSL VII 376” refers to the review beginning on page 376 in volume 7 of this BULLETIN, or to the publication there reviewed. “JSL LV 347” refers to one of the reviews or one of the publications reviewed or listed on page 347 of volume 55 of the JOURNAL, with reliance on the context to show which one is meant. The reference “JSL LIII 318(3)” is to the third item on page 318 of volume 53 of the JOURNAL, that is, to van Heijenoort’s *Frege and vagueness*, and “JSL LX 684(8)” refers to the eighth item on page 684 of volume 60 of the JOURNAL, that is, to Tarski’s *Truth and proof*.

References such as 495 or 280I are to entries so numbered in *A bibliography of symbolic logic* (the JOURNAL, vol. 1, pp. 121–218).

GREGORY CHERLIN AND EHUD HRUSHOVSKI. *Finite structures with few types*. Annals of Mathematics Studies. Princeton University Press, 2003, vi + 196 pp.

The work in this monograph is a continuation and perhaps perfection of ideas and methods from a line of investigation started by B. Zilber in his work on uncountably categorical theories and their models [B. Zilber, *Uncountably categorical theories*, Translations of Mathematical Monographs, vol. 117, American Mathematical Society, 1993] and A. Lachlan, in his work on stable homogeneous structures; for an overview, see [A. H. Lachlan in *Algebraic model theory*, pp. 145–159, edited by B. T. Hart, A. H. Lachlan, M. A. Valeriote, Kluwer Academic Publishers, 1997]. These two studies were merged in the work on  $\aleph_0$ -categorical  $\aleph_0$ -stable structures [G. Cherlin, L. Harrington and A. H. Lachlan, *Annals of Pure and Applied Logic*, vol. 28 (1985), pp. 103–135], and subsequently the ideas were taken further in the study of smoothly approximated structures, in particular the primitive ones, in [W. M. Kantor, M. W. Liebeck, H. D. Macpherson, *Proceedings of the London Mathematical Society* vol. 59 (1989), no. 3, pp. 439–463]. Briefly, the two main themes involved have been that of understanding the structure of infinite “minimal” definable sets (where I here take “minimal” to mean, for some  $n < \omega$ , the set cannot be split definably into  $n$  disjoint infinite parts) and of “coordinatization”, which, roughly speaking, tells us how the infinite minimal definable sets are organized within the whole structure.

*Finite Structures with Few Types* studies in great detail a class of infinite  $\aleph_0$ -categorical structures called *smoothly approximable*, which includes all previously mentioned structures.