

Books Received

Books marked with an asterisk (*) are still available for review:
Books marked with a dagger (†) are reviewed in this issue.

- *Zofia ADAMOWICZ & Paweł ZBIERSKI, *Logika matematyczna* (Warszawa, Państwowe Wydawnictwo Naukowe, 1991)
- *Cristina BICCHIERI & Maria Luisa DALLA CHIARA (editors), *Knowledge, Belief, and Strategic Interaction* (Cambridge, Cambridge University Press, 1992)
- *Józef M. BOCHENSKI, *Współczesne metody myślenia* (Poznań, „W drodze” — Wydawnictwo Polskiej Prowincji Dominikanów, 1988)
- *Katalin BIMBÓ & András MÁTÉ (editors), *Proceedings of the Fourth Symposium on Logic and Language, Budapest, 5. to 9. August 1992* (Budapest, Áron Publishers, 1993); 234pp.
- *István M. BODNÁR, András MÁTÉ & László PÓLOS (editors), *Intensional Logic, History of Philosophy and Methodology (to I. Ruzsa on the Occasion of His 65th Birthday)* (Budapest, Filozofiaoktatok Továbbképző és Információs Központja, 1988)
- *L.F. DEL CERRO and M. PENTTONEN, *Intensional Logics for Programming* (Oxford/New York, Oxford University Press, 1992)
- *Anita Burdman FEFERMAN, *Politics, Logic, and Love: The Life of Jean van Heijenoort* (London, A.K. Peters; under the auspices of Boston, Jones and Bartlett, 1992)
- *Alejandro GARCÍADIEGO, *Bertrand Russell and the Origin of the Set-theoretic Paradoxes* (Basel/Boston/Berlin, Birkhäuser Verlag, 1992)
- *Л.П. ГОКИЕЛИ *Логика* (Тбилиси, Издательство «Мецниереба», 1965)
- *Lewis E. HAHN (editor), *The Philosophy of A.J. Ayer* (La Salle, Open Court, 1992)
- *Bogusław IWANUS, *A Proof of Completeness of a Theory of Algebras of Sets* (Wrocław, Wydawnictwa Uniwersytetu Wrocławskiego, Prace Filozoficzne XXV, ser. Logika 7, 1980)
Logique et Analyse (n.s.) 33, nr. 128-128 (1989)
- *А.О. МАКОВЕЛЬСКИЙ, *История логики* (Москва, Наука, 1967)
Grigori E. Mints, *Selected Papers in Proof Theory* (Studies in Proof Theory Monographs 3, Napoli, Edizioni di Filosofia e Scienze and Amsterdam/Oxford/New York, 1992)
- *Alberto MURA, *La sfida scettica: Saggio su problema logico dell'induzione*, (Pisa, ETS Editrice, 1992).
- *М.И. Панов (редактор), *Методологический анализ оснований математики* (Москва, «Наука», 1988)
- *Małgorzata POREBSKA & Wojciech SUCHON, *Elementarne wprowadzenie w logikę formalną* (Warszawa, Państwowe Wydawnictwo Naukowe, 1991) (2 copies)
- *Marek Tokarz, *Elementy pragmatyki logicznej* (Warszawa, Wydawnictwo Naukowe PWN, 1993)
- *C.J.F. WILLIAMS, *Being, Identity, and Truth* (Oxford, Clarendon Press, 1992)

BIBLIOGRAPHIC NOTES

Валентин БАЖАНОВ, *Прерванный полет (История логики и философии в Казани до 1922 года)*, Татарстан № 5 (1993), 74-80. [Interrupted flight (history of logic and philosophy in Kazan to 1922)].

István M. BODNÁR, András MÁTÉ, & László PÓLOS (editors), *Intensional logic, history of philosophy, and methodology: To Imre Ruzsa on the occasion of his 65th birthday* (Budapest, Kezirat Gyanant, 1988). Includes: Karel Berka, "Natural Deduction in Bolzano's *Wissenschaftslehre*," pp. 203-212, which argues that Bolzano used "procedures like natural deduction" in his inference theory; K. Wuttich, "Some Remarks on the History of Epistemic Logic," pp. 231-237; and "The Works of Imre Ruzsa: Selected Bibliography," compiled by A. Máté, pp. 253-256.

M. BORGIA, *Sulla consistenza delle teorie matematiche: Hilbert e la scuola di Peano a confronto*, *Epistemologia* 15 (1992), Fascicolo Speciale, 41–54.

Karel ČUDA, *Translations of nonstandardly defined notions*, From the Logical Point of View (1993, no. 1), 1–31. Taking Leibniz's infinitesimal analysis as a part of nonstandard analysis of Edward Nelson's variety, based on internal set theory, the author explores the relationship between Leibniz's analysis and "classical" (i.e. real) analysis.

Nicholas GRIFFIN, *Review of The Mathematical Philosophy of Bertrand Russell: Origins and Development*. By Francisco Rodríguez-Consuegra, *Historia Mathematica* 20 (1993), 216–222.

Richard G. HECK, Jr. *The development of arithmetic in Frege's Grundgesetze der Arithmetik*, *Journal of Symbolic Logic* 58 (1993), 579–601. Calls for a reassessment of Frege's treatment of arithmetic, arguing that arithmetic can be developed in the *Grundgesetze* from Hume's Principle and need not depend upon the notorious Axiom V (which allows functions to be taken as indeterminate arguments for higher-order functions), but that Frege failed to develop arithmetic axiomatically in the *Grundgesetze*.

Wilfrid HODGES, *Model theory*, Cambridge/New York, Cambridge University Press, 1993. This elementary textbook includes many historical notes.

C. MANGIONI & S. BOZZI, *Storia della Logica*, Milano, Garzanti, 1993. Focuses on the development of modern logic, the core of the historical treatment starts with a chapter on the "rennovation" of algebraic logic and ends with a chapter on developments of the 1960's.

Elena Anne MARCHISOTTO, *Mario Pieri and his contributions to geometry and foundations of mathematics*, *Historia Mathematica* 20 (1993), 285–303. Surveys the work in geometry (especially algebraic geometry) and foundations of mathematics, including axiomatization of arithmetic and explains how his work was eclipsed by the work of Hilbert and Peano. An annotated list of Pieri's writings is appended (pp. 295–301).

E. MARTINO & G. USBERTI, *Propositions and judgements in Martin-Löf*, in G. Usberti (ed.), *Problemi fondazioni nella teoria del significato* (Olschki, 1991)

Franco MONTAGNA (ed.), *La ricerca in Logica in Italia*, *Notizie di Logica* XI (n. 2–3–4, luglio – dicembre 1992), 4–12. A brief sketch, with bibliographies, of recent work of logicians at Padua, Genoa, Firenze, and Pisa.

F.P. RAMSEY, (M.C. Galavotti, ed.), *Notes on Philosophy, Probability and Mathematics* (History of Logic, vol. VII), Napoli, Bibliopolis, 1991. A new edition of R.B. Braithwaite's collection, published by Routledge & Kegan Paul in 1954 under the title *The Foundations of Mathematics, and Other Logical Essays*, of Frank Plumpton Ramsey's papers.

K.A. РЫБНИКОВ (ред.), *Математика в Московском университете: Сборник научных трудов* (Москва: Издат-во МГУ, 1992); 283pp. and 32 photographs between pp. 32–33. Of special interest: A.N. Kolmogorov, S.I. Adjan, A.G. Dragalin, A.S. Kuzicheva, E.Yu. Nogina, A.L. Semenov, V.A. Uspenskij on mathematical logic and theory of algorithms in the Mechanics-Mathematics Faculty of Moscow State University, pp. 128–155 and K.A. Rybnikov on history and methodology of mathematics, pp. 174–283.

Matthias SCHIRN, *Review of Franz von Kutschera, "Gottlob Frege. Eine Einführung in sein Werk,"* *Journal of Symbolic Logic* 58 (1993), 366–368.

S.G. SHANKER (ed.), *Il teorema di Gödel: Una messa a fuoco* (Muzzio Scienze, vol. 6), Padova, F. Muzzio Editore, 1991. An Italian translation of Shanker's 1988 anthology *Gödel's Theorem in Focus*.

Franz VON KUTSCHERA, *Gottlob Frege. Eine Einführung in sein Werk*, Berlin/New York, Walter de Gruyter, 1989. Surveys the life and scientific work of Frege, with emphasis on the philosophical aspects of Frege's work in logic.

Jan WOLENSKI, *Gödel, Tarski and the undefinability of truth*, *Jahrbuch 1991 der Kurt-Gödel-Gesellschaft/Yearbook 1991 of the Kurt Gödel Society* (Wien, Kurt-Gödel-Gesellschaft, 1993), 97–108.