Books Received

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

*Irving H. ANELLIS, *Van Heijenoort: Logic and Its History in the Work and
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 В. А. БАЖАНОВ, *Перванные полет. История „Университетской" философии
    и логики в России* (Москва, Московского Государственнего Универ-
    ситета, 1995)
*Zoltan BÁNRÉTI (editor), *Papers in the Theory of Grammar* (Budapest, Research
    Institute for Linguistics of the Hungarian Academy of Sciences, 1994)
 Sasaki CHIKARA, Sugiura MITSUO and Joseph W. DAUBEN (editors), *The Inter-
    section of History and Mathematics* (Basel/Boston/Berlin, Birkhäuser,
    1994)
*Joseph Warren DAUBEN, *Abraham Robinson. The Creation of Nonstandard
    Analysis. A Personal and Mathematical Odyssey* (Princeton, Princeton Uni-
    versity Press, 1995)
 Martin DAVIS (editor), *Solvability, Provability, Definability: The Collected
    Works of Emil Post* (Basel/Boston/Berlin, Birkhäuser, 1994)
 Philip EHRLICH (editor), *Real Numbers, Generalization of the Reals, and
    Theories of Continua* (Dordrecht/Boston/London, Kluwer, 1994)
*Б. И. ФЕДОРОВ & З. О. ДЖАЛИАШВИЛИ, *Логика компьютерного диалог*
    (Москва, «Онега», 1994)
†Solomon FEFERMAN, *et al.*, (editors), *Kurt Gödel. Collected Works, volume III:
    Unpublished Essays and Lectures* (New York/Oxford, Oxford University
    Press, 1995)
†Dov GABBAY, Ian HODKINSON & Mark REYNOLDS, *Temporal Logic: Mathe-
    matical Foundations and Computational Aspects*, vol. 1 (New York, Oxford
    University Press, 1994)
 Martin GARDNER, *The Night Is Large. Collected Essays 1938–1995* (New York,
    St. Martin's Press, 1996)
†Alexander GEORGE (editor), *Mathematics and Mind* (New York, Oxford Univer-
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*Simon GINDIKIN, James LEPOWSKY and Robert WILSON (editors), *Functional
    Analysis on the Eve of the 21st Century. Vol. II. In Honor of the Eightieth Birth-
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 Robert GOLDBLATT, *Mathematics of Modality* (Stanford, CSLI Publications,
    1993)
 Martin GOLDSTERN and Haim JUDAH, *The Incompleteness Phenomenon: A New
    Course in Mathematical Logic* (Wellesley, MA., A.K. Peters, 1995)

Edmund HUSSERL, *Early Writings in the Philosophy of Logic and Mathematics,* translated by Dallas Willard (Dordrecht/Boston/London, Kluwer, 1994)

Roman KAŁUŻA, *Through a Reporter's Eyes. The Life of Stefan Banach* (Basel/Boston/Berlin, Birkhäuser, 1996)

M. KATĚTOV and P. SIMON (editors), *The Mathematical Legacy of Eduard Čech* (Basel/Boston/Berlin, Birkhäuser, 1993)

H. Jerome KEISLER and Jerome ROBBIN, *Mathematical Logic and Computability* (New York/.../Toronto, McGraw-Hill, 1996)

Tadeusz KWIATKOWSKI, *Szkice z historii logiki ogólnej* (Lublin, Daimonion, 1993)

Shaughan LAVINE, *Understanding the Infinite* (Cambridge, MA/London, Harvard University Press, 1994)

*Paolo LEONARDI & Marco SANTAMBROGIO (editors), *On Quine: New Essays* (Cambridge/New York, Cambridge University Press, 1995)

Robert C. MOORE, *Logic and Representation* (Stanford, CSLI Publications, 1995)

*Roman MURAWSKI, *Filozofia matematyki. Zarys Dziejów* (Warszawa, Wydawnictwo Naukowe PWN, 1995)

*Mieczsław OMYŁA, *Zarys logiki* (Warszwa, Wydawnictwa Skolne i Pedagogiczne, 1995)

†Jean-Paul PIER (editor), *Development of Mathematics 1900 – 1950* (Basel/Boston/Berlin, Birkhäuser, 1994)

*Josep PLA I CARRERA, *Axiomes Alternatius de la Teoria de Conjunts i Llur Influència en Matemàtiques* (Barcelona, Institut d'Estudis Catalans, 1993)

†Graham PRIEST, *Beyond the Limits of Thought* (Cambridge, Cambridge University Press, 1995)

*Jan PRZBYŁOWSKI, *Logika z ogólną metodologią nauk. Podręcznik dla humanistów* (Gdańsk, Wydawnictwo Uniwersytetu Gdańskiego, 1995)

Jarmo PULKKINEN, *The Threat of Logical Mathematism: A Study on the Critique of Mathematical Logic in Germany at the Turn of the 20th Century* (Frankfurt am Main/Berlin/Bern/New York/Paris/Vienna, Peter Lang GmbH, 1994)

W. V. QUINE, *Selected Logic Papers* (Cambridge, MA, Harvard University Press, enlarged edition, 1995)

Ansgar RICHTER, *Der Begriff der Abduktion bei Charles Sanders Peirce* (Frankfurt am Main, Peter Lang, 1995)

†R. M. SAINSBURY, *Paradoxes*, second edition (Cambridge, Cambridge University Press, 1995)

Erik SANDEWALL, *Features and Fluents. The Representation of Knowledge about Dynamical Systems*, vol. 1 (Oxford/New York, Clarendon Press, 1994)

Saharon SHELAH, *Cardinal Arithmetic* (Oxford/New York, Clarendon Press, 1994)

Sun-Joo SHIN, *The Logical Status of Diagrams* (Cambridge/New York, Cambridge University Press, 1994)

Charles L. SILVER, *From Symbolic Logic . . . To Mathematical Logic* (Dubuque/Melbourne/Oxford, Wm. C. Brown, 1994)

Barry SMITH and David Woodruff SMITH (editors), *The Cambridge Companion to Husserl* (Cambridge, Cambridge University Press, 1995)

Craig SMORYŃSKI, *Logical Number Theory I* (Berlin/Heidelberg/New York, Springer-Verlag, 1991)

*Wojciech SUCHOŃ, *Elementy teorii mnogości* (Kraków, Nakładem Uniwersytetu Jagiellońskiego, 1995)

Raymond M. SMULLYAN, *Diagonalization and Self-Reference* (New York/ Oxford, Oxford University Press, 1994)

*Kazimierz TRZĘSICKI, *Logika nieformalna. Zagadnienia wybrane* (Warszawa/ Białystok, Znak - Język - Rzeczywistość, 1995)

*Nicla VASSALLO, *La Depsicologizzazione della Logica. In confronto tra Boole e Frege* (Milano, FrancoAngeli, 1995)

*Józef WAJSZCZYK, *Logika a czas i zmiana* (Olsztyn, Wyższa Szkoła Pedagogiczna, 1995)

*Zbigniew WOLAKA (red.), *Logika i metafilozofia* (Tarnów, Biblio & Kraków, OBI, 1995)

*Ewa ŻARNECKA-BIAŁY, *Mała logika* (Kraków, Uniwersytet Jagielloński, 1993)

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by

IRVING H. ANELLIS

Newton C. A. DA COSTA, Jean-Yves BÉZIAU, and Otávio A. S. BUENO, *Aspects of paraconsistent logic*, Workshop on Logic, Language, Information and Computation '94 (Recife, 1994), Bulletin of the IGPL 3 (1995), 597–614. A historical discussion and expository survey of paraconsistent logic. The historical sections sketch some of the work of Jan Łukasiewicz of 1910) and N. A. Vasil'ev of 191) as the "forerunners" of paraconsistent logic, then turns to a consideration of Jaśkowski's work of 1948. Next the contributions in the field of da Costa and his colleagues from 1954 to Béziau's recent results are surveyed. After a technical exposition of work in the field and a philosophical discussion that argues that paraconsistent logic was developed as an alternative tool to, rather than as a rival of, classical logic, the bibliography lists almost forty works published since 1963.

Yvon GAUTHIER, *Hilbert and the internal logic of mathematics*, Synthèse **101** (1994), 1–14. The author asserts that Hilbert's program was partly inspired by Kronecker's program of founding an arithmetic theory of algebraic quantities. Finitism remains within the strictures of intuitive finite arithmetic