

Bibliography

compiled by DANA S. SCOTT,
DAVID CHARLES MCCARTY, and
JOHN F. HORTY

Note: Authors are listed in alphabetical order. In the case of multiple authors, the first-named author determines the alphabetical order for the listing, and the other, single authors are given only cross-references. Editors of volumes are not regarded as authors, but in entries involving edited volumes the editors names are included when known. Under an author, the arrangement of the listing is chronological, with works in preparation or in press at the end. Cross-references also occur at the end of an author's listings. It was intended that each entry should be given in as complete a form as reasonable and without abbreviations. Unfortunately, a few entries remain incomplete.

AANDERAA, S. O.

- 1974 *Inductive definitions and their closure ordinals*. In: **Generalized Recursion Theory**, edited by J. E. Fenstad and P. G. Hinman. North-Holland Publishing Company, 1974, pp. 207–220.

ACZEL, P. H. G.

- 1970 *Representability in some systems of second-order arithmetic*. **Israel Journal of Mathematics**, vol. 8 (1970), pp. 309–328.
- 1973 *Infinitary logic and the Barwise compactness theorem*. In: **Proceedings of the Bertrand Russell Memorial Logic Conference**, edited by J. L. Bell, J. C. Cole, G. Priest and A. B. Slomson. University of Leeds, 1973, pp. 234–277.
- 1975 *Quantifiers, games and inductive definitions*. In: **Proceedings of the Third Scandinavian Logic Symposium**, edited by S. Kanger. North-Holland Publishing Company, 1975, pp. 1–14.
- 1977 *An introduction to inductive definitions*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 739–782.

ACZEL, P. H. G. and RICHTER, W. H.

- 1974 *Inductive definitions and reflecting properties of admissible ordinals*. In: **Generalized Recursion Theory**, edited by J. E. Fenstad and P. G. Hinman. North-Holland Publishing Company, 1974, pp. 301–381.

ADAMS, E. W.

- 1974 *The logic of "almost all"*. **Journal of Philosophical Logic**, vol. 3 (1974), pp. 3–17.

ADAMSON, A. A.

- 1978 *Admissible sets and the saturation of structures*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 111–157.

AFRICK, H. L.

- 1974 *Scott's interpolation theorem fails for $L_{\omega_1\omega}$* . **Journal of Symbolic Logic**, vol. 39 (1974), pp. 124–126.

ALDOUS, D. J.

- 198? *Weak convergence and the general theory of processes*. **École d'Été de Probabilités de Saint-Flour**. To appear.

ALEKSANDROV, P. S. and URYSON, P. S.

- 1929 *Mémoire sur les espaces topologiques compacts*. **Verhandelingen der Koninklijke Akademie van Wetenschappen te Amsterdam. Afdeling Natuurkunde (Eerste Sectie)**, vol. 14 (1929), pp. 1–96.

ANAPOLITANOS, D. A. and VÄÄNÄNEN, J.

- 1981 *Decidability of some logics with free quantifier variables*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 27 (1981), pp. 17–22.

ANDERSON, R. M.

- 1976 *A non-standard representation for Brownian motion and Itô integration*. **Israel Journal of Mathematics**, vol. 25 (1976), pp. 15–46.
- 1977 *Star-finite probability theory*. Doctoral Dissertation, Yale University, 1977, iii+117 pp.
- 1981 *Almost implies near*. Manuscript, Princeton University, 1981, 9 pp.
- 1982 *Star-finite representations of measure spaces*. **Transactions of the American Mathematical Society**, vol. 271 (1982), pp. 667–687.

ANDRÉKA, H., GERGELY, T. and NÉMETI, I.

- 1977 *An approach to abstract model theory in category theoretical frame*. **Journal of Symbolic Logic**, vol. 42 (1977), p. 440. Abstract.

ANDRÉKA, H. and NÉMETI, I.

- 1978 *Loś lemma holds in every category*. **Studia Scientiarum Mathematicarum Hungarica**, vol. 13 (1978), pp. 361–376.
- 1979 *Injectivity in categories to represent all first-order formulas. I*. **Demonstratio Mathematica**, vol. 12 (1979), pp. 717–732.

- 1982 *A general axiomatizability theorem formulated in terms of cone-injective subcategories*. In: **Universal Algebra**, edited by B. Csákány, E. Fried, and E. T. Schmidt. **Colloquia Mathematica Societatis János Bolyai**, vol. 29. North-Holland Publishing Company, 1982, pp. 13–35.
- 1984 *Finitary logics of infinitary structures (model theoretic properties)*. Manuscript, Mathematical Institute, Hungarian Academy of Science, 1984.
- ANDRÉKA, H., NÉMETI, I. and SAIN, I.
- 1984 *Abstract model theoretic approach to algebraic semantics*. Manuscript, Mathematical Institute, Hungarian Academy of Science, 1984, 80 pp.
- APELT, H.
- 1966 *Axiomatische Untersuchungen über einige mit der Presburgerschen Arithmetik verwandte Systeme*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 12 (1966), pp. 131–168.
- APT, K. R. and MAREK, W.
- 1974 *Second order arithmetic and related topics*. **Annals of Mathematical Logic**, vol. 6 (1974), pp. 177–229.
- BADGER, L. W.
- 1974 *Beth's theorem fails in $L^{<\omega}$. Preliminary report*. **Notices of the American Mathematical Society**, vol. 21 (1974), p. A322. Abstract.
- 1975 *The Malitz quantifier meets its Ehrenfeucht game*. Doctoral Dissertation, University of Colorado, Boulder, 1975, 102 pp.
- 1977 *An Ehrenfeucht game for the multivariable quantifiers of Malitz and some applications*. **Pacific Journal of Mathematics**, vol. 72 (1977), pp. 293–304.
- 1980 *Beth's property fails in $L^{<\omega}$* . **Journal of Symbolic Logic**, vol. 45 (1980), pp. 284–290.
- BALDO, A.
- 1983 *Complete interpolation theorems for L_{kk}^{2+}* . **Unione Matematica Italiana. Bollettino. B. Serie VI**, vol. 2 (1983), pp. 759–777.
- BALDWIN, J. T.
- 1975 *Conservative extensions and the two cardinal theorem for stable theories*. **Fundamenta Mathematicae**, vol. 88 (1975), pp. 7–9.
- 1980 *The number of subdirectly irreducible algebras in a variety, II*. **Algebra Universalis**, vol. 11 (1980), pp. 1–6.
- 1984 *First-order theories of abstract dependence relations*. **Annals of Pure and Applied Logic**, vol. 26 (1984), pp. 215–243.
- BALDWIN, J. T. and BERMAN, J. D.
- 1975 *The number of subdirectly irreducible algebras in a variety*. **Algebra Universalis**, vol. 5 (1975), pp. 379–389.

- 1981 *Elementary classes of varieties*. **Houston Journal of Mathematics** (Houston, Texas), vol. 7 (1981), pp. 473–492.
- BALDWIN, J. T. and KUEKER, D. W.
- 1980 *Ramsey quantifiers and the finite cover property*. **Pacific Journal of Mathematics**, vol. 90 (1980), pp. 11–19.
- BALDWIN, J. T. and LACHLAN, A. H.
- 1971 *On strongly minimal sets*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 79–96.
- BALDWIN, J. T. and MILLER, D. E.
- 1982 *Some contributions to definability theory for languages with generalized quantifiers*. **Journal of Symbolic Logic**, vol. 47 (1982), pp. 572–586.
- BALDWIN, J. T. and SHELAH, S.
- 1982 *Second order quantifiers and the complexity of theories*. Manuscript, University of Illinois, Chicago, 1982, 143 pp.
- BALL, R.
- 1984 *Distributive Cauchy lattices*. **Algebra Universalis**, vol. 18 (1984), pp. 134–174.
- BARWISE, K. J.
- 1967 *Infinitary logic and admissible sets*. Doctoral Dissertation, Stanford University, 1967, 124 pp.
- 1968 *Implicit definability and compactness in infinitary languages*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 1–35.
- 1969a *Applications of strict Π_1^1 predicates to infinitary logic*. **Journal of Symbolic Logic**, vol. 34 (1969), pp. 409–423.
- 1969b *Infinitary logic and admissible sets*. **Journal of Symbolic Logic**, vol. 34 (1969), pp. 226–252.
- 1969c *Remarks on universal sentences of $L_{\omega_1\omega}$* . **Duke Mathematical Journal**, vol. 36 (1969), pp. 631–637.
- 1971 *Infinitary methods in the model theory of set theory*. In: **Logic Colloquium '69**, edited by R. O. Gandy and C. M. E. Yates. North-Holland Publishing Company, 1971, pp. 53–66.
- 1972a *Absolute logic and $L_{\infty\omega}$* . **Annals of Mathematical Logic**, vol. 4 (1972), pp. 309–340.
- 1972b *The Hanf number of second-order logic*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 588–594.
- 1973a *A preservation theorem for interpretations*. In: **Cambridge Summer School in Mathematical Logic**, edited by A. R. D. Mathias and H. Rogers. Springer-Verlag Lecture Notes in Mathematics, vol. 337 (1973), pp. 618–621.

- 1973b *Back and forth through infinitary logics*. In: **Studies in Model Theory**, edited by M. D. Morley. **Mathematical Association of America, Studies in Mathematics**, vol. 8 (1973), pp. 5-34.
- 1974a *Axioms for abstract model theory*. **Annals of Mathematical Logic**, vol. 7 (1974), pp. 221-265.
- 1974b *Mostowski's collapsing function and the closed unbounded filter*. **Fundamenta Mathematicae**, vol. 82 (1974), pp. 95-103.
- 1975 **Admissible Sets and Structures: An Approach to Definability Theory**. Springer-Verlag, 1975, xiii+394 pp.
- 1976 *Some applications of Henkin quantifiers*. **Israel Journal of Mathematics**, vol. 25 (1976), pp. 47-63.
- 1977 *An introduction to first-order logic*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 5-46.
- 1978a *An application of recursion theory in abstract model theory*. **Notices of the American Mathematical Society**, vol. 25 (1978), p. A385. Abstract.
- 1978b *Monotone quantifiers and admissible sets*. In: **Generalized Recursion Theory II**, edited by J. E. Fenstad, R. O. Gandy, and G. E. Sacks. North-Holland Publishing Company, 1978, pp. 1-38.
- 1979 *On branching quantifiers in English*. **Journal of Philosophical Logic**, vol. 8 (1979), pp. 47-80.
- 1980 *Infinitary logics*. In: **Modern logic: A Survey**, edited by E. Agazzi. D. Reidel Publishing Company, 1980, pp. 93-112.
- 1981 *The role of the omitting types theorem in infinitary logic*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 21 (1981), pp. 55-68.
- 1983 *Information and semantics*. **The Behavioral and Brain Sciences**, vol. 6 (1983), p. 65.
- BARWISE, K. J. and COOPER, R.
- 1981 *Generalized quantifiers and natural language*. **Linguistics and Philosophy**, vol. 4 (1981), pp. 159-219.
- BARWISE, K. J. and EKLOF, P. C.
- 1969 *Lefschetz's principle*. **Journal of Algebra**, vol. 13 (1969), pp. 554-570.
- 1970 *Infinitary properties of Abelian torsion groups*. **Annals of Mathematical Logic**, vol. 2 (1970), pp. 25-68.
- BARWISE, K. J. and FISHER, E. R.
- 1970 *The Shoenfield absoluteness lemma*. **Israel Journal of Mathematics**, vol. 8 (1970), pp. 329-339.
- BARWISE, K. J., GANDY, R. O. and MOSCHOVAKIS, Y. N.
- 1971 *The next admissible set*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 108-120.

BARWISE, K. J., KAUFMANN, M. J. and MAKKAI, M.

1978 *Stationary logic*. *Annals of Mathematical Logic*, vol. 13 (1978), pp. 171–224.

1981 *A correction to "Stationary logic"*. *Annals of Mathematical Logic*, vol. 20 (1981), pp. 231–232.

BARWISE, K. J. and KUNEN, K.

1971 *Hanf numbers for fragments of $L_{\infty\omega}$* . *Israel Journal of Mathematics*, vol. 10 (1971), pp. 306–320.

BARWISE, K. J. and MAKKAI, M.

1976 *The completeness theorem for stationary logic. Preliminary report*. *Notices of the American Mathematical Society*, vol. 23 (1976), p. A594. Abstract.

BARWISE, K. J. and MOSCHOVAKIS, Y. N.

1978 *Global inductive definability*. *Journal of Symbolic Logic*, vol. 43 (1978), pp. 521–534.

BARWISE, K. J. and SCHLIPF, J. S.

1975 *On recursively saturated models of arithmetic*. In: *Model Theory and Algebra*, edited by D. H. Saracino and V. B. Weispfenning. *Springer-Verlag Lecture Notes in Mathematics*, vol. 498 (1975), pp. 42–55.

1976 *An introduction to recursively saturated and resplendent models*. *Journal of Symbolic Logic*, vol. 41 (1976), pp. 531–536.

BAUDISCH, A.

1976 *Elimination of the quantifiers Q_α in the theory of Abelian groups*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 24 (1976), pp. 543–549.

1977a *Decidability of the theory of Abelian groups with Ramsey quantifiers*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 25 (1977), pp. 733–739.

1977b *Theorien von Klassen Abelscher Gruppen mit verallgemeinerten Quantoren*. Habilitationsschrift, Humboldt-Universität, 1977, 133 pp.

1977c *The theory of Abelian groups with the quantifier $(\leq x)$* . *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 23 (1977), pp. 447–462.

1979 *Uncountable n -cubes in models of \aleph_0 -categorical theories*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 27 (1979), pp. 1–9.

1980 *The theory of Abelian p -groups with the quantifier I is decidable*. *Fundamenta Mathematicae*, vol. 108 (1980), pp. 183–197.

1981a *The elementary theory of Abelian groups with μ -chains of pure subgroups*. *Fundamenta Mathematicae*, vol. 112 (1981), pp. 147–157.

- 1981b *Formulas of $L(aa)$ where aa is not in the scope of " \neg ".* *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 249–254.
- 1982 *Decidability and stability of free nilpotent Lie algebras and free nilpotent p -groups of finite exponent.* *Annals of Mathematical Logic*, vol. 23 (1982), pp. 1–25.
- 1983 *Corrections and supplements to "Decidability of the theory of Abelian groups with Ramsey quantifiers".* *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 31 (1983), pp. 99–105.
- 1984 *Magidor-Malitz quantifiers in modules.* *Journal of Symbolic Logic*, vol. 49 (1984), pp. 1–8.
- BAUDISCH, A., SEESE, D. G., AND TUSCHIK, H.-P.
- 1983 *ω -trees in stationary logic.* *Fundamenta Mathematicae*, vol. 119 (1983), pp. 205–215.
- BAUDISCH, A., SEESE, D. G., TUSCHIK, H.-P. and WEESE, M.
- 1980 *Decidability and Generalized Quantifiers.* Akademie-Verlag, Berlin, 1980, xii+235 pp.
- BAUDISCH, A. and WEESE, M.
- 1977 *The Lindenbaum algebras of the theories of well-orderings and Abelian groups with the quantifier Q_α .* In: *Set Theory and Hierarchy Theory V*, edited by A. H. Lachlan, M. Srebrny and A. Zarach. Springer-Verlag Lecture Notes in Mathematics, vol. 619 (1977), pp. 59–74.
- BAUMGARTNER, J. E.
- 1973 *All \aleph_1 -dense sets of reals can be isomorphic.* *Fundamenta Mathematicae*, vol. 79 (1973), pp. 101–106.
- 1974 *The Hanf number for complete $L_{\omega_1, \omega}$ sentences (without GCH).* *Journal of Symbolic Logic*, vol. 39 (1974), pp. 575–578.
- 1975 *Ineffability properties of cardinals, I.* In: *Infinite and Finite Sets*, edited by A. Hajnal, R. Rado and V. T. Sós. North-Holland Publishing Company, 1975, pp. 109–130.
- 1976 *Ineffability properties of cardinals, II.* In: *Logic, Methodology and Philosophy of Science V*, edited by R. E. Butts and K. J. J. Hintikka. North-Holland Publishing Company, 1976, pp. 87–106.
- BAUMGARTNER, J. E. and LAVER, R.
- 1979 *Iterated perfect-set forcing.* *Annals of Mathematical Logic*, vol. 17 (1979), pp. 271–288.
- BAUMGARTNER, J. E., MALITZ, J. J. and REINHARDT, W. N.
- 1970 *Embedding trees in the rationals.* *Proceedings of the National Academy of Sciences of the USA*, vol. 67 (1970), pp. 1748–1753.

BAUR, W.

- 1975 \aleph_0 -categorical modules. *Journal of Symbolic Logic*, vol. 40 (1975), pp. 213–220.
- 1976 *Elimination of quantifiers for modules*. *Israel Journal of Mathematics*, vol. 25 (1976), pp. 64–70.

BELL, J. L.

- 1970 *Weak compactness in restricted second-order languages*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 18 (1970), pp. 111–114.
- 1972 *On the relationship between weak compactness in $L_{\omega_1\omega}$ and restricted second-order languages*. *Archiv für Mathematische Logik und Grundlagenforschung*, vol. 15 (1972), pp. 74–78.
- 1974 *On compact cardinals*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 20 (1974), pp. 389–393.

BELL, J. L. and SLOMSON, A. B.

- 1969 *Models and Ultraproducts: An Introduction*. North-Holland Publishing Company, 1969, ix+322 pp.

BENDA, M.

- 1968 *Ultraproducts and non-standard logics*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 16 (1968), pp. 453–456.
- 1969 *Reduced products and non-standard logics*. *Journal of Symbolic Logic*, vol. 34 (1969), pp. 424–436.
- 1970 *Reduced products, filters and Boolean ultrapowers*. Doctoral Dissertation, University of Wisconsin, Madison, 1970, vii+60 pp.
- 1972 *On reduced products and filters*. *Annals of Mathematical Logic*, vol. 4 (1972), pp. 1–29.
- 1978 *Compactness for omitting of types*. *Annals of Mathematical Logic*, vol. 14 (1978), pp. 39–56.

BEN-DAVID, S.

- 1978a *On Shelah's compactness of cardinals*. *Israel Journal of Mathematics*, vol. 31 (1978), pp. 34–56.
- 1978b *Correction to: "On Shelah's compactness of cardinals"*. *Israel Journal of Mathematics*, vol. 31 (1978), p. 394.

BENYAMINI, Y., RUDIN, M. E. and WAGE, M. L.

- 1977 *Continuous images of weakly compact subsets of Banach spaces*. *Pacific Journal of Mathematics*, vol. 70 (1977), pp. 309–324.

BERGSTRA, J. A. and TUCKER, J. V.

- 1984 *Hoare's logic for programming languages with two data types*. (Note). *Theoretical Computer Science*, vol. 28 (1984), pp. 215–222.

BERMAN, J. D.

See: J. T. Baldwin and J. D. Berman 1975; J. T. Baldwin and J. D. Berman 1981.

BETH, E. W.

1953 *On Padoa's method in the theory of definition. Indagationes Mathematicae*, vol. 15 (1953), pp. 330–339.

BOCHVAR, D. A.

1940 *Über einen Aussagenkalkül mit abzählbaren logischen Summen und Produkten. Matematičeskii Sbornik*, vol. 7 (1940), pp. 65–100.

BOOS, W.

1975 *Lectures on large cardinal axioms.* In: **ISILC Logic Conference**, edited by G. H. Müller, A. Oberschelp and K. Potthoff. **Springer-Verlag Lecture Notes in Mathematics**, vol. 499 (1975), pp. 25–88.

1976 *Infinitary compactness without strong inaccessibility. Journal of Symbolic Logic*, vol. 41 (1976), pp. 33–38.

BOURGAIN, J., ROSENTHAL, H. P. and SCHECHTMAN, G.

1981 *An ordinal L^p -index for Banach spaces, with application to complemented subspaces of L^p .* **Annals of Mathematics**, vol. 114 (1981), pp. 193–228.

BROESTERHUIZEN, G. A.

1975a *A generalized Loś ultraproduct theorem. Colloquium Mathematicum*, vol. 33 (1975), pp. 161–173.

1975b *Structures for a logic with additional generalized quantifier. Colloquium Mathematicum*, vol. 33 (1975), pp. 1–12.

BROWN, W. E.

1972 *Infinitary languages, generalized quantifiers and generalized products.* Doctoral Dissertation, Dartmouth College, 1972, 118 pp.

BRUCE, K. B.

1975 *Model-theoretic forcing with a generalized quantifier.* Doctoral Dissertation, University of Wisconsin, Madison, 1975, 163 pp.

1976 *Model-theoretic forcing in $L(Q)$.* **Journal of Symbolic Logic**, vol. 41 (1976), p. 281. Abstract.

1977 *Forcing in stationary logic. Preliminary report.* **Notices of the American Mathematical Society**, vol. 24 (1977), p. A21. Abstract.

1978a *Ideal models and some not so ideal problems in the model theory of $L(Q)$.* **Journal of Symbolic Logic**, vol. 43 (1978), pp. 304–321.

1978b *Model-theoretic forcing in logic with a generalized quantifier.* **Annals of Mathematical Logic**, vol. 13 (1978), pp. 225–265.

- 1980 *Model constructing in stationary logic, I. Forcing.* **Journal of Symbolic Logic**, vol. 45 (1980), pp. 439–454.
- 1981 *Definable ultrapowers and compactness in stationary logic.* **Journal of Symbolic Logic**, vol. 46 (1981), p. 193. Abstract.
- BRUCE, K. B. and KEISLER, H. J.
- 1979 $L_A(\exists)$. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 15–28.
- BÜCHI, J. R.
- 1960 *Weak second-order arithmetic and finite automata.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 6 (1960), pp. 66–92.
- 1962 *On a decision method in restricted second order arithmetic.* In: **Logic, Methodology and Philosophy of Science**, edited by E. Nagel, P. Suppes and A. Tarski. Stanford University Press, 1962, pp. 1–11.
- 1965a *Decision methods in the theory of ordinals.* **Bulletin of the American Mathematical Society**, vol. 71 (1965), pp. 767–770.
- 1965b *Transfinite automata recursions and weak second order theory of ordinals.* In: **Logic, Methodology and Philosophy of Science**, edited by Y. Bar-Hillel. North-Holland Publishing Company, 1965, pp. 3–23.
- 1973 *The monadic second-order theory of ω_1 .* In: **Decidable Theories, II: Monadic Second Order Theory of All Countable Ordinals**, edited by G. H. Müller and D. Siefkes. Springer-Verlag Lecture Notes in Mathematics, vol. 328 (1973), pp. 1–127.
- 1977 *Using determinancy of games to eliminate quantifiers.* In: **Fundamentals of Computation Theory**, edited by M. Karpiński. Springer-Verlag Lecture Notes in Computer Science, vol. 56 (1977), pp. 367–378.
- 1981 *Winning state-strategies for Boolean F_σ -games.* Manuscript, Purdue University, 1981, 45 pp.
- 1983 *State-strategies for games in $F_{\sigma\delta} \cap G_{\sigma\delta}$.* **Journal of Symbolic Logic**, vol. 48 (1983), pp. 1171–1198.
- See also: K. J. Danhof and J. R. Büchi 1973.
- BÜCHI, J. R. and LANDWEBER, L. H.
- 1969a *Definability in the monadic second-order theory of successors.* **Journal of Symbolic Logic**, vol. 34 (1969), pp. 166–170.
- 1969b *Solving sequential conditions by finite-state strategies.* **Transactions of the American Mathematical Society**, vol. 138 (1969), pp. 295–311.
- BÜCHI, J. R. and SIEFKES, D.
- 1973 *Axiomatization of the monadic second order theory of ω_1 .* In: **Decidable Theories, II: Monadic Second Order Theory of All Countable Ordinals**, edited by G. H. Müller and D. Siefkes. Springer-Verlag Lecture Notes in Mathematics, vol. 328 (1973), pp. 129–217.

- 1983 *The complete extensions of the monadic second order theory of countable ordinals.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 29 (1983), pp. 289–312.
- BÜCHI, J. R. and ZAIONTZ, C.
- 1983 *Deterministic automata and the monadic theory of ordinals $< \omega_2$.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 29 (1983), pp. 313–336.
- BUECHLER, S.
- 1979a *Ideal models and uniform validity.* Manuscript, University of Maryland, 1979, 25 pp.
- 1979b *Uniform validity and stationary logic.* Manuscript, University of Maryland, 1979, 25 pp.
- BURGESS, J. P.
- 1977 *Descriptive set theory and infinitary languages.* In: **Set Theory and Foundations of Mathematics**, edited by T. Andjelić. **Institut Mathématique (Belgrad), Recueil des Travaux, N.S.**, vol. 2 (1977), pp. 9–30.
- 1978a *Consistency proofs in model theory: a contribution to Jensenlehre.* **Annals of Mathematical Logic**, vol. 14 (1978), pp. 1–12.
- 1978b *On the Hanf number of Souslin logic.* **Journal of Symbolic Logic**, vol. 43 (1978), pp. 568–571.
- BURGESS, J. P. and MILLER, D. E.
- 1975 *Remarks on invariant descriptive set theory.* **Fundamenta Mathematicae**, vol. 90 (1975), pp. 53–75.
- BURRIS, S. N.
- 1973 *Scott sentences and a problem of Vaught for mono-unary algebras.* **Fundamenta Mathematicae**, vol. 80 (1973), pp. 111–115.
- BURRIS, S. N. and MCKENZIE, R.
- 1981 *Decidable varieties with modular congruence lattices.* **Bulletin of the American Mathematical Society**, vol. 4 (1981), pp. 350–352.
- BURSTALL, R. M.
- See: J. A. Goguen and R. M. Burstall 1984.
- CAICEDO FERRER, X.
- 1977a *A back-and-forth characterization of elementary equivalence in stationary logic.* Technical Report, Department of Mathematics, University of Maryland, 1977, 22 pp.
- 1977b *On extensions of $L(Q_1)$.* **Preliminary report. Notices of the American Mathematical Society**, vol. 24 (1977), p. A437. Abstract.

- 1978 *Maximality and interpolation in abstract logics (back-and-forth techniques)*. Doctoral Dissertation, University of Maryland, 1978, 146 pp.
- 1980 *Back-and-forth systems for arbitrary quantifiers*. In: **Mathematical Logic in Latin America**, edited by A. I. Arruda, R. Chuaqui and N. C. A. DaCosta. North-Holland Publishing Company, 1980, pp. 83–102.
- 1981a *Back-and-forth systems for arbitrary quantifiers*. **Journal of Symbolic Logic**, vol. 46 (1981), p. 183. Abstract.
- 1981b *On extensions of $L_{\omega\omega}(Q_1)$* . **Notre Dame Journal of Formal Logic**, vol. 22 (1981), pp. 85–93.
- 1981c *Independent sets of axioms in $L_{\kappa\alpha}$* . **Canadian Mathematical Bulletin**, vol. 24 (1981), pp. 219–223.
- CALAIS, J.-P.
- 1969 *La méthode de Fraïssé dans les langages infinis*. **Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A**, vol. 268 (1969), pp. 785–788 and pp. 845–848.
- 1972 *Partial isomorphisms and infinitary languages*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 18 (1972), pp. 435–456.
- CALL, R. L.
- 1972 *Sequent methods in systems with generalized quantifiers*. **Journal of Symbolic Logic**, vol. 37 (1972), p. 433. Abstract.
- CAMPBELL, P. J.
- 1971 *Suslin logic*. Doctoral Dissertation, Cornell University, 1971, 78 pp.
- CARNAP, R.
- 1935 *Ein Gültigkeitskriterium für die Sätze der klassischen Mathematik*. **Monatshefte für Mathematik und Physik**, vol. 42 (1935), pp. 163–190.
- CARSTENGERDES, W.
- 1971a *Mehrsortige logische Systeme mit unendlich langen Formeln, I*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 14 (1971), pp. 38–53.
- 1971b *Mehrsortige logische Systeme mit unendlich langen Formeln, II*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 14 (1971), pp. 108–126.
- CHANG, C. C.
- 1965a *A note on the two cardinal problem*. **Proceedings of the American Mathematical Society**, vol. 16 (1965), pp. 1148–1155.

- 1965b *A simple proof of the Rabin-Keisler theorem.* **Bulletin of the American Mathematical Society**, vol. 71 (1965), pp. 642–643.
- 1967 *Ultraproducts and other methods of constructing models.* In: **Sets, Models, and Recursion Theory**, edited by J. N. Crossley. North-Holland Publishing Company, 1967, pp. 85–121.
- 1968a *A generalization of the Craig interpolation theorem.* **Notices of the American Mathematical Society**, vol. 15 (1968), p. 934. Abstract.
- 1968b *Infinitary properties of models generated from indiscernibles.* In: **Logic, Methodology and Philosophy of Science III**, edited by B. van Rootselaar and J. F. Staal. North-Holland Publishing Company, 1968, pp. 9–21.
- 1968c *Some remarks on the model theory of infinitary languages.* In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. **Springer-Verlag Lecture Notes in Mathematics**, vol. 72 (1968), pp. 36–63.
- 1971a *Sets constructible using $L_{\kappa\kappa}$.* In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 1–8.
- 1971b *Two interpolation theorems.* **Symposia Mathematica**, vol. 5 (1971), pp. 5–19.
- 1973 *Modal model theory.* In: **Cambridge Summer School in Mathematical Logic**, edited by A. R. D. Mathias and H. Rogers. **Springer-Verlag Lecture Notes in Mathematics**, vol. 337 (1973), pp. 599–617.
- CHANG, C. C. and KEISLER, H. J.
- 1962 *Applications of ultraproducts of pairs of cardinals to the theory of models.* **Pacific Journal of Mathematics**, vol. 12 (1962), pp. 835–845.
- 1973 **Model Theory.** North-Holland Publishing Company, 1973, xii+550 pp.
- 1977 **Model Theory (Second Edition).** North-Holland Publishing Company, 1977, xii+554 pp.
- CHANG, C. C. and MOSCHOVAKIS, Y. N.
- 1968 *On Σ_1^1 -relations on special models.* **Notices of the American Mathematical Society**, vol. 15 (1968), p. 934. Abstract.
- 1970 *The Suslin-Kleene theorem for V_κ with cofinality $(\kappa) = \omega$.* **Pacific Journal of Mathematics**, vol. 35 (1970), pp. 565–569.
- CHASE, S. U.
- 1963 *On group extensions and a problem of J. H. C. Whitehead.* In: **Topics in Abelian Groups**, edited by J. M. Irwin and E. A. Walker. Scott, Foresman and Company, 1963, pp. 173–193.

CHERLIN, G. L.

- 1976 *Model-theoretic algebra*. **Journal of Symbolic Logic**, vol. 41 (1976), pp. 537–545.

CHERLIN, G. L. and SCHMITT, P. H.

- 1980 *A decidable L^t -theory of topological Abelian groups*. Manuscript, University of Heidelberg, 1980, 58 pp.
- 1981 *Undecidable L^t theories of topological Abelian groups*. **Journal of Symbolic Logic**, vol. 46 (1981), pp. 761–772.
- 1983 *Locally pure topological Abelian groups: Elementary invariants*. **Annals of Pure and Applied Logic**, vol. 24 (1983), pp. 49–85.

CHOUÉKA, Y. A.

- 1974 *Theories of automata on ω -tapes: A simplified approach*. **Journal of Computer and System Sciences**, vol. 8 (1974), pp. 117–141.

CHURCH, A.

- 1963 *Logic, arithmetic, and automata*. In: **Proceedings of the International Congress of Mathematicians. 1962**, edited by V. Stenström. Institute Mittag-Leffler, Djursholm, 1963, pp. 23–35.

CLEAVE, J. P.

- 1969a *Local properties of systems*. **The Journal of the London Mathematical Society**, vol. 44 (1969), pp. 121–130.
- 1969b *Addendum: Local properties of systems*. **The Journal of the London Mathematical Society**, vol. 44 (1969), p. 384.

COCCHIARELLA, N. B.

- 1975 *A second order logic of variable-binding operators*. **Reports on Mathematical Logic**, vol. 5 (1975), pp. 3–18.

COLE, J. C. and DICKMANN, M. A.

- 1972 *Non-axiomatizability results in infinitary languages for higher-order structures*. In: **Conference in Mathematical Logic, London '70**, edited by W. Hodges. Springer-Verlag Lecture Notes in Mathematics, vol. 255 (1972), pp. 29–41.

COMBASE, J.

- 1984 *On the existence of finitely determinate models for some theories in stationary logic*. **Journal of Symbolic Logic**, vol. 49 (1984), p. 687. Abstract.

COMFORT, W. W. and NEGREPONTIS, S.

- 1974 **The Theory of Ultrafilters**. Springer-Verlag, 1974, x+482 pp.

COMPTON, K. J.

- 1980 *Applications of logic to finite combinatorics*. Doctoral Dissertation, University of Wisconsin, 1980, iv+120 pp.

COOPER, R.

See: K. J. Barwise and R. Cooper 1981.

CORCORAN, J., HATCHER, W. S., and HERRING, J. M.

1972 *Variable binding term operators*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 18 (1972), pp. 177–182.

CORCORAN, J. and HERRING, J. M.

1971 *Notes on a semantic analysis of variable binding term operators*. *Logique et Analyse*, vol. 14 (1971), pp. 644–657.

CORRADA, M. and DE ALCANTARA, L. P.

1980 *Notes on many-sorted systems*. In: *Proceedings of the Third Brazilian Conference on Mathematical Logic*, edited by A. I. Arruda, N. C. A. DaCosta and A. M. Sette. Sociedade Brasileira de Lógica, 1980, pp. 83–108.

COVEN, C. W.

1971 *Forcing for infinitary languages*. Doctoral Dissertation, Yale University, 1971, 91 pp.

COWLES, J. R.

1975 *Abstract logic and extensions of first-order logic*. Doctoral Dissertation, University of Pennsylvania, 1975, 74 pp.

1976 *Ordered structures and logics with Ramsey quantifiers*. *Notices of the American Mathematical Society*, vol. 23 (1976), p. A450. Abstract.

1977 *The theory of differential closed fields in logics with cardinal quantifiers*. *Archiv für Mathematische Logik und Grundlagenforschung*, vol. 18 (1977), pp. 105–114.

1979a *The relative expressive power of some logics extending first-order logic*. *Journal of Symbolic Logic*, vol. 44 (1979), pp. 129–146.

1979b *The theory of Archimedean real closed fields in logics with Ramsey quantifiers*. *Fundamenta Mathematicae*, vol. 103 (1979), pp. 65–76.

1980 *Field theories in the logic with the Härtig quantifier*. *Abstracts of Papers Presented to the American Mathematical Society*, vol. 1 (1980), p. 175. Abstract.

1981a *Generalized Archimedean fields and logics with Malitz quantifiers*. *Fundamenta Mathematicae*, vol. 112 (1981), pp. 45–59.

1981b *The Henkin quantifier and real closed fields*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 549–555.

CRAIG, W.

1957a *Linear reasoning. A new form of the Herbrand-Gentzen theorem*. *Journal of Symbolic Logic*, vol. 22 (1957), pp. 250–268.

- 1957b *Three uses of the Herbrand-Gentzen theorem in relating model theory and proof theory.* **Journal of Symbolic Logic**, vol. 22 (1957), pp. 269–285.
- 1962 *Relative characterizability and generalized existential quantifiers. Preliminary report.* **Notices of the American Mathematical Society**, vol. 9 (1962), p. 153. Abstract.
- 1965 *Satisfaction for n -th order languages defined in n -th order languages.* **Journal of Symbolic Logic**, vol. 30 (1965), pp. 13–25.
- CRAIG, W. and VAUGHT, R. L.
- 1958 *Finite axiomatizability using additional predicates.* **Journal of Symbolic Logic**, vol. 23 (1958), pp. 289–308.
- ČUDNOVSKIIĚ, D. V.
- See: G. V. Čudnovskii and D. V. Čudnovskii 1971.
- ČUDNOVSKIIĚ, G. V.
- 1968 *Some results in the theory of infinitely long expressions.* **Soviet Mathematics, Doklady**, vol. 9 (1968), pp. 556–559.
- 1970 *Problems of the theory of models related to categoricity.* **Algebra and Logic**, vol. 9 (1970), pp. 50–74.
- ČUDNOVSKIIĚ, G. V. and ČUDNOVSKIIĚ, D. V.
- 1971 *Regular and descending incomplete ultrafilters.* **Soviet Mathematics, Doklady**, vol. 12 (1971), pp. 901–905.
- CUTLAND, N. J.
- 1971 *The theory of hyperarithmetical and Π_1^1 models.* Doctoral Dissertation, University of Bristol, 1971, vii+147 pp.
- 1972a *Π_1^1 models and Π_1^1 categoricity.* In: **Conference in Mathematical Logic, London '70**, edited by W. Hodges. **Springer-Verlag Lecture Notes in Mathematics**, vol. 255 (1972), pp. 42–62.
- 1972b *Σ_1 -compactness and ultraproducts.* **Journal of Symbolic Logic**, vol. 37 (1972), pp. 668–672.
- 1973 *Model theory on admissible sets.* **Annals of Mathematical Logic**, vol. 5 (1973), pp. 257–290.
- 1976 *Compactness without languages.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 22 (1976), pp. 113–115.
- 1978 *Σ_1 -compactness in languages stronger than L_A .* **Journal of Symbolic Logic**, vol. 43 (1978), pp. 508–520.
- 1982 *On the existence of solutions to stochastic differential equations on Loeb spaces.* **Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete**, vol. 60 (1982), pp. 335–357.

- 1983 *Nonstandard measure theory and its applications. Bulletin of the London Mathematical Society*, vol. 15 (1983), pp. 529–589.
- CUTLAND, N. J. and KAUFMANN, M. J.
- 1979 *On well-founded Σ_1 -compactness. Preliminary report. Notices of the American Mathematical Society*, vol. 26 (1979), p. A247. Abstract.
- 1980 *Σ_1 -well-founded compactness. Annals of Mathematical Logic*, vol. 18 (1980), pp. 271–296.
- DACOSTA, N. C. A. and PINTER, C.
- 1976 *α -logic and infinitary languages. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 22 (1976), pp. 105–112.
- DAHN, B.
- 1974 *Contributions to the model theory for non-classical logics. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 20 (1974), pp. 473–479.
- 1979 *Invariant logics. Journal of Symbolic Logic*, vol. 44 (1979), p. 445. Abstract.
- DALEY, R. F.
- See: K. L. Manders and R. F. Daley 1982.
- DANHOF, K. J. and BÜCHI, J. R.
- 1973 *Variations on a theme of Cantor in the theory of relational structures. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 19 (1973), pp. 411–426.
- DE ALCANTARA, L. P.
- See: M. Corrada and L. P. de Alcantara 1980.
- DELLACHERIE, C. and MEYER, P. A.
- 1981 *Probabilities and Potential. North-Holland Publishing Company*, 1981, x+129 pp.
- DEVLIN, K. J.
- 1973a *Aspects of Constructibility. Springer-Verlag Lecture Notes in Mathematics*, vol. 354, 1973, xii+240 pp.
- 1973b *On forcing with Souslin trees. Technical Report, University of Oslo*, 1973, 14 pp.
- 1975 *Indescribability properties and small large cardinals. In: ISILC Logic Conference*, edited by G. H. Müller, A. Oberschelp and K. Potthoff. *Springer-Verlag Lecture Notes in Mathematics*, vol. 499 (1975), pp. 89–114.
- 1977 *Constructibility. In: Handbook of Mathematical Logic*, edited by K. J. Barwise. *North-Holland Publishing Company*, 1977, pp. 453–489.

DEVLIN, K. J. and JOHNSBRÅTEN, H.

1974 **The Souslin Problem.** Springer-Verlag Lecture Notes in Mathematics, vol. 405, 1974, viii+132 pp.

DEVLIN, K. J. and SHELAH, S.

1978 *A weak version of \diamond which follows from a weak version of $2^{\aleph_0} < 2^{\aleph_1}$.* Israel Journal of Mathematics, vol. 29 (1978), pp. 239–247.

DICKMANN, M. A.

1970 **Model Theory of Infinitary Languages.** Aarhus Lecture Notes Series. Matematisk Institut, Aarhus Universitet, vol. 20, 1970, viii+390 pp.

1973 *The problem of non-finite axiomatizability of \aleph_1 -categorical theories.* In: **Proceedings of the Bertrand Russell Memorial Logic Conference**, edited by J. L. Bell, J. C. Cole, G. Priest and A. B. Slomson. University of Leeds, 1973, pp. 141–216.

1975 **Large Infinitary Languages: Model Theory.** North-Holland Publishing Company, 1975, xv+464 pp.

1977 *Deux applications de la méthode de va-et-vient.* Publications du Département de Mathématiques, Faculté des Sciences de Lyon, vol. 14 (1977), pp. 63–92.

See also: J. C. Cole and M. A. Dickmann 1972.

DONDER, H.-D., JENSEN, R. B. and KOPPELBERG, B. J.

1981 *Some applications of the core model.* In: **Set Theory and Model Theory**, edited by R. B. Jensen and A. Prestel. Springer-Verlag Lecture Notes in Mathematics, vol. 872 (1981), pp. 55–97.

DONER, J. E.

1965 *Decidability of the weak second-order theory of two successors.* Notices of the American Mathematical Society, vol. 12 (1965), p. 819. Abstract.

1970 *Tree acceptors and some of their applications.* Journal of Computer and System Sciences, vol. 4 (1970), pp. 406–451.

DONER, J. E., MOSTOWSKI, A. and TARSKI, A.

1978 *The elementary theory of well-ordering—a metamathematical study.* In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 1–54.

DORACZYNSKI, R.

1973 *Elimination of bound variables in logic with an arbitrary quantifier.* Studia Logica, vol. 32 (1973), pp. 117–129.

DRAKE, F. R.

1974 **Set Theory: An Introduction to Large Cardinals.** North-Holland Publishing Company, 1974, xii+351 pp.

DUBIEL, M.

- 1977a *Generalized quantifiers and elementary extensions of countable models.* **Journal of Symbolic Logic**, vol. 42 (1977), pp. 341–348.
- 1977b *Generalized quantifiers in models of set theory.* **Journal of Symbolic Logic**, vol. 42 (1977), p. 448. Abstract.

DÜRBAUM, H.

See: H.-J. Kowalsky and H. Dürbaum 1953.

EASTON, W. B.

- 1970 *Powers of regular cardinals.* **Annals of Mathematical Logic**, vol. 1 (1970), pp. 139–178.

EBBINGHAUS, H. D.

- 1968 *On the logic with the added quantifier Q (there are uncountably many).* **Notices of the American Mathematical Society**, vol. 15 (1968), p. 547. Abstract.
- 1969 *Über für-fast-alle-Quantoren.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 12 (1969), pp. 179–193.
- 1971 *On models with large automorphism groups.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 14 (1971), pp. 179–197.
- 1975a *Modelltheorie und Logik. Jahresbericht der Deutschen Mathematiker-Vereinigung*, vol. 76 (1975), pp. 165–182.
- 1975b *Zum $L(Q)$ -Interpolationsproblem.* **Mathematische Zeitschrift**, vol. 142 (1975), pp. 271–279.

EBBINGHAUS, H. D. and FLUM, J.

- 1974 *Eine Maximalitätseigenschaft der Prädikatenlogik erster Stufe.* **Mathematische-Physikalische Semesterberichte, Göttingen**, vol. 21 (1974), pp. 182–202.

EBBINGHAUS, H. D., FLUM, J. and THOMAS, W.

- 1984 **Mathematical Logic.** Springer-Verlag, 1984, x+216 pp.

EBBINGHAUS, H. D. and ZIEGLER, M.

- 1982 *Interpolation in Logiken monotonen Systeme.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 12 (1982), pp. 1–17.

EHRENFEUCHT, A.

- 1958 *Theories having at least continuum many non-isomorphic models in each infinite power.* **Notices of the American Mathematical Society**, vol. 5 (1958), p. 680. Abstract.
- 1959a *Decidability of the theory of one function.* **Notices of the American Mathematical Society**, vol. 6 (1959), p. 268. Abstract.

- 1959b *Decidability of the theory of one linear ordering relation. Notices of the American Mathematical Society*, vol. 6 (1959), pp. 268–269. Abstract.
- 1961 *An application of games to the completeness problem for formalized theories. Fundamenta Mathematicae*, vol. 49 (1961), pp. 129–141.
- 1975 *Practical decidability. Journal of Computer and System Sciences*, vol. 11 (1975), pp. 392–396.
- EHRENFEUCHT, A. and MOSTOWSKI, A.
- 1956 *Models of axiomatic theories admitting automorphisms. Fundamenta Mathematicae*, vol. 43 (1956), pp. 50–68.
- EKLOF, P. C.
- 1970 *On the existence of $L_{\infty\kappa}$ -indiscernibles. Proceedings of the American Mathematical Society*, vol. 25 (1970), pp. 798–800.
- 1973 *Lefschetz's principle and local functors. Proceedings of the American Mathematical Society*, vol. 37 (1973), pp. 333–339.
- 1974 *Infinitary equivalence of Abelian groups. Fundamenta Mathematicae*, vol. 81 (1974), pp. 305–314.
- 1975a *Categories of local functors. In: Model Theory and Algebra*, edited by D. H. Saracino and V. B. Weispfenning. Springer-Verlag Lecture Notes in Mathematics, vol. 498 (1975), pp. 91–116.
- 1975b *On the existence of κ -free Abelian groups. Proceedings of the American Mathematical Society*, vol. 47 (1975), pp. 65–72.
- 1976 *Infinitary model theory of Abelian groups. Israel Journal of Mathematics*, vol. 25 (1976), pp. 97–107.
- 1977a *Applications of logic to the problem of splitting Abelian groups. In: Logic Colloquium '76*, edited by J. M. E. Hyland and R. O. Gandy. North-Holland Publishing Company, 1977, pp. 287–299.
- 1977b *Classes closed under substructures and direct limits. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 23 (1977), pp. 427–430.
- 1977c *Methods of logic in Abelian group theory. In: Abelian Group Theory*, edited by D. M. Arnold, R. H. Hunter and E. A. Walker. Springer-Verlag Lecture Notes in Mathematics, vol. 616 (1977), pp. 251–269.
- See also: K. J. Barwise and P. C. Eklof 1969; K. J. Barwise and P. C. Eklof 1970.
- EKLOF, P. C. and FISHER, E. R.
- 1972 *The elementary theory of Abelian groups. Annals of Mathematical Logic*, vol. 4 (1972), pp. 115–171.
- EKLOF, P. C. and MEKLER, A. H.
- 1979 *Stationary logic of finitely determinate structures. Annals of Mathematical Logic*, vol. 17 (1979), pp. 227–269.

- 1981 *Infinitary stationary logic and Abelian groups*. **Fundamenta Mathematicae**, vol. 112 (1981), pp. 1–15.
- 1982 *Categoricity results for $L_{\infty\kappa}$ -free algebras*. **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), pp. 409–410. Abstract.
- EKLOF, P. C. and SABBAGH, G.
- 1971 *Definability problems for modules and rings*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 623–649.
- ELGOT, C. C.
- 1961 *Decision problems of finite automata design and related arithmetics*. **Transactions of the American Mathematical Society**, vol. 98 (1961), pp. 21–51.
- ELLENTUCK, E.
- 1975 *The foundations of Suslin logic*. **Journal of Symbolic Logic**, vol. 40 (1975), pp. 567–575.
- ENDERTON, H. B.
- 1970a *Finite partially ordered quantifiers*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 16 (1970), pp. 393–397.
- 1970b *The unique existential quantifier*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 13 (1970), pp. 52–54.
- 1972 **A Mathematical Introduction to Logic**. Academic Press, 1972, xiii+295 pp.
- ENGELER, E.
- 1961a *Unendliche Formeln in der Modelltheorie*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 7 (1961), pp. 154–160.
- 1961b *Zur Beweistheorie von Sprachen mit unendlich langen Formeln*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 7 (1961), pp. 213–218.
- 1963a *Combinatorial theorems for the construction of models*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 77–88.
- 1963b *A reduction principle for infinite formulas*. **Mathematische Annalen**, vol. 151 (1963), pp. 296–303.
- ENGELKING, R. and KARŁOWICZ, M.
- 1965 *Some theorems of set theory and their topological consequences*. **Fundamenta Mathematicae**, vol. 57 (1965), pp. 275–285.
- ERDÖS, P., GILLMAN, L. and HENRIKSEN, M.
- 1955 *An isomorphism theorem for real closed fields*. **Annals of Mathematics**, vol. 61 (1955), pp. 542–554.

ERDÖS, P. and HAJNAL, A.

1958 *On the structure of set mappings*. *Acta Mathematica Academiae Scientiarum Hungaricae*, vol. 9 (1958), pp. 111–131.

1962 *Some remarks concerning our paper "On the structure of set mappings"*. *Acta Mathematica Academiae Scientiarum Hungaricae*, vol. 13 (1962), pp. 223–226.

ERDÖS, P., HAJNAL, A. and RADO, R.

1965 *Partition relations for cardinal numbers*. *Acta Mathematica Academiae Scientiarum Hungaricae*, vol. 16 (1965), pp. 93–196.

ERDÖS, P. and RADO, R.

1956 *A partition calculus in set theory*. *Bulletin of the American Mathematical Society*, vol. 62 (1956), pp. 427–489.

ERŠOV, JU. L.

1964a *Decidability of certain non-elementary theories (Russian)*. *Algebra i Logika*, vol. 3, no. 2 (1964), pp. 45–47.

1964b *Decidability of the elementary theory of relatively complemented lattices and of the theory of filters (Russian)*. *Algebra i Logika*, vol. 3, no. 3 (1964), pp. 17–38.

1974 *Theories of non-Abelian varieties of groups*. In: *Proceedings of the Tarski Symposium*, edited by L. A. Henkin. *American Mathematical Society Proceedings of Symposia in Pure Mathematics*, vol. 25 (1974), pp. 255–264.

FAGIN, R.

1976 *Probabilities on finite models*. *Journal of Symbolic Logic*, vol. 41 (1976), pp. 50–58.

FAJARDO, S. V.

1980 *Compacidad y decidibilidad de lógicas monádicas con cuantificadores cardinales*. *Revista Colombiana de Matematicas*, vol. 14 (1980), pp. 173–196.

FALEVIČ, B. J. A.

1959 *Incompleteness theorems in systems with infinite induction (Russian)*. In: *Trudy Tret'ego Vsesojuznogo Matematičeskogo S'ezda*, edited by A. A. Abramov, V. G. Boltjanskii and S. M. Nikol'skii. *Izdatel'stvo Akademii Nauk SSSR, Moskva*, 1959, pp. 89–90.

FEFERMAN, S.

1968a *Lectures on proof theory*. In: *Proceedings of the Summer School in Logic, Leeds, 1967*, edited by M. H. Löb. *Springer-Verlag Lecture Notes in Mathematics*, vol. 70 (1968), pp. 1–107.

1968b *Persistent and invariant formulas for outer extensions*. *Compositio Mathematica*, vol. 20 (1968), pp. 29–52.

- 1972 *Infinitary properties, local functors, and systems of ordinal functions.* In: **Conference in Mathematical Logic, London '70**, edited by W. Hodges. **Springer-Verlag Lecture Notes in Mathematics**, vol. 255 (1972), pp. 63–97.
- 1974a *Applications of many-sorted interpolation theorems.* In: **Proceedings of the Tarski Symposium**, edited by L. A. Henkin. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 25 (1974), pp. 205–223.
- 1974b *Two notes on abstract model theory, I: Properties invariant on the range of definable relations between structures.* **Fundamenta Mathematicae**, vol. 82 (1974), pp. 153–165.
- 1975 *Two notes on abstract model theory, II: Languages for which the set of valid sentences is s.i.i.d..* **Fundamenta Mathematicae**, vol. 89 (1975), pp. 111–130.
- FEFERMAN, S. and KREISEL, G.
- 1966 *Persistent and invariant formulas relative to theories of higher order.* **Bulletin of the American Mathematical Society**, vol. 72 (1966), pp. 480–485.
- FEFERMAN, S. and VAUGHT, R. L.
- 1959 *The first-order properties of algebraic systems.* **Fundamenta Mathematicae**, vol. 47 (1959), pp. 57–103.
- FELGNER, U.
- 1971 *Comparison of the axioms of local and universal choice.* **Fundamenta Mathematicae**, vol. 71 (1971), pp. 43–62.
- FELSCHER, W.
- 1965 *Zur Algebra unendlich langer Zeichenreihen.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 11 (1965), pp. 5–16.
- FENSTAD, J. E.
- 1967 *Representations of probabilities defined on first-order languages.* In: **Sets, Models, and Recursion Theory**, edited by J.N. Crossley. North-Holland Publishing Company, 1967, pp. 156–172.
- FERRO, R.
- 1974 *Interpolation theorems for second order positive languages with conjunctions and quantifications over sets of cardinality smaller than a strong limit cardinal of denumerable cofinality.* Doctoral Dissertation, University of California at Los Angeles, 1974, 91 pp.
- 1975 *Limits to some interpolation theorems.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 54 (1975), pp. 201–213.

- 1976 *Consistency property and model existence theorem for second order negative languages with conjunctions and quantifications over sets of cardinality smaller than a strong limit cardinal of denumerable cofinality.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 55 (1976), pp. 123–141.
- 1978 *Interpolation theorems for $L_{\kappa, \kappa}^{2+}$.* **Journal of Symbolic Logic**, vol. 43 (1978), pp. 535–549.
- 1981 *An analysis of Karp's interpolation theorem and the notion of κ -consistency property.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 65 (1981), pp. 111–118.
- 1982 *ω -satisfiability, ω -consistency property and the downward Löwenheim-Skolem theorem for $L_{\kappa, \kappa}$.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 66 (1982), pp. 7–19.
- 1983 *Seq-consistency property and interpolation theorems.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 70 (1983), pp. 133–145.
- FISCHER, M. J. and RABIN, M. O.
- 1974 *Super-exponential complexity of Presburger arithmetic.* In: **Complexity of Computation**, edited by R. M. Karp. **SIAM-AMS Proceedings**, vol. 7 (1974), pp. 27–41.
- FISHER, E. R.
- 1977 *Abelian Structures, I.* In: **Abelian Group Theory**, edited by D. M. Arnold, R. H. Hunter and E. A. Walker. **Springer-Verlag Lecture Notes in Mathematics**, vol. 616 (1977), pp. 270–322.
- See also: K. J. Barwise and E. R. Fisher 1970; P. C. Eklof and E. R. Fisher 1972.
- FLUM, J.
- 1971a *Ganzgeschlossene und prädikatengeschlossene Logiken, I.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 14 (1971), pp. 24–37.
- 1971b *Ganzgeschlossene und prädikatengeschlossene Logiken, II.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 14 (1971), pp. 99–107.
- 1971c *A remark on infinitary languages.* **Journal of Symbolic Logic**, vol. 36 (1971), pp. 461–462.
- 1972a *Die Automorphismenmengen der Modelle einer L_Q -Theorie.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 15 (1972), pp. 83–85.
- 1972b *Hanf numbers and well-ordering numbers.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 15 (1972), pp. 164–178.

- 1975a *L(Q)-preservation theorems*. *Journal of Symbolic Logic*, vol. 40 (1975), pp. 410–418.
- 1975b *First-order logic and its extensions*. In: *ISILC Logic Conference*, edited by G. H. Müller, A. Oberschelp and K. Potthoff. *Springer-Verlag Lecture Notes in Mathematics*, vol. 499 (1975), pp. 248–310.
- 1984 *Modelltheorie – topologische Modelltheorie*. *Jahresbericht der Deutschen Mathematiker-Vereinigung*, vol. 86 (1984), pp. 69–82.
See also: H. D. Ebbinghaus and J. Flum 1974; H. D. Ebbinghaus, J. Flum and W. Thomas 1984.
- FLUM, J. and ZIEGLER, M.
- 1980 *Topological Model Theory*. *Springer-Verlag Lecture Notes in Mathematics*, vol. 769, 1980, x+151 pp.
- FRAÏSSÉ, R.
- 1954a *Sur l'extension aux relations de quelques propriétés des ordres*. *Annales Scientifiques de l'École Normale Supérieure*, vol. 71 (1954), pp. 363–388.
- 1954b *Sur quelques classifications des systèmes des relations*. *Publications Scientifiques de l'Université d'Alger. Série A*, vol. 1 (1954), pp. 35–182.
- 1955a *Sur quelques classifications des relations basées sur des isomorphismes restreints, I: Étude générale*. *Publications Scientifiques de l'Université d'Alger. Série A*, vol. 2 (1955), pp. 15–60.
- 1955b *Sur quelques classifications des relations basées sur des isomorphismes restreints, II: Applications aux relations d'ordre, et construction d'exemples montrant que ces classifications sont distinctes*. *Publications Scientifiques de l'Université d'Alger. Série A*, vol. 2 (1955), pp. 273–295.
- 1956a *Sur quelques classifications des relations basées sur des isomorphismes restreints, III: Comparaison des parentés introduites dans la première partie avec des parentés précédemment étudiées*. *Publications Scientifiques de l'Université d'Alger. Série A*, vol. 3 (1956), pp. 143–159.
- 1956b *Étude de certains opérateurs dans les classes de relations, définis à partir d'isomorphismes restreints*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 2 (1956), pp. 59–75.
- 1974 *Isomorphisme local et équivalence associés à un cardinal; utilité en calcul des formules infinies à quanteurs finis*. In: *Proceedings of the Tarski Symposium*, edited by L. A. Henkin. *American Mathematical Society Proceedings of Symposia in Pure Mathematics*, vol. 25 (1974), pp. 241–254.
- FRAYNE, T. E., MOREL, A. C. and SCOTT, D. S.
- 1962 *Reduced direct products*. *Fundamenta Mathematicae*, vol. 51 (1962), pp. 195–228.

FRIEDMAN, H. M.

- 1970a *Why first-order logic?* Manuscript, Stanford University and the University of Wisconsin, 1970, 16 pp.
- 1970b *Conceptual guide to "Why first-order logic?"*. Manuscript, Stanford University and the University of Wisconsin, 1970, 4 pp.
- 1971a *Back and forth, $L(Q)$, $L_{\infty\omega}(Q)$ and Beth's theorem*. Manuscript, Stanford University, 1971.
- 1971b *The Beth and Craig theorems in infinitary languages*. Manuscript, University of Wisconsin, 1971, 37 pp.
- 1973 *Beth's theorem in cardinality logics*. **Israel Journal of Mathematics**, vol. 14 (1973), pp. 205–212.
- 1974 *On existence proofs of Hanf numbers*. **Journal of Symbolic Logic**, vol. 39 (1974), pp. 318–324.
- 1975a *Adding propositional connectives to countable infinitary logic*. **Mathematical Proceedings of the Cambridge Philosophical Society**, vol. 77 (1975), pp. 1–6.
- 1975b *Large models of countable height*. **Transactions of the American Mathematical Society**, vol. 201 (1975), pp. 227–239.
- 1975c *One hundred and two problems in mathematical logic*. **Journal of Symbolic Logic**, vol. 40 (1975), pp. 113–129.
- 1977 *Adding propositional connectives to countable infinitary logics*. **Mathematical Proceedings of the Cambridge Philosophical Society**, vol. 77 (1977), pp. 1–6.
- 1978 *On the logic of measure and category I*. Manuscript, Ohio State University, 1978, 13 pp.
- 1979a *Addendum to "On the logic of measure and category I"*. Manuscript, Ohio State University, 1979, 8 pp.
- 1979b *Borel structures in mathematics I*. Manuscript, Ohio State University, 1979, 9 pp.
- 1979c *On the naturalness of definable operations*. **Houston Journal of Mathematics (Houston, Texas)**, vol. 105 (1979), pp. 325–330.

FRIEDMAN, H. M. and JENSEN, R. B.

- 1968 *Note on admissible ordinals*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. **Springer-Verlag Lecture Notes in Mathematics**, vol. 72 (1968), pp. 77–79.

FRIEDMAN, S. D.

- 1981 *Uncountable admissibles, II: Compactness*. **Israel Journal of Mathematics**, vol. 40 (1981), pp. 129–149.
- 1982a *Steel forcing and Barwise compactness*. **Annals of Mathematical Logic**, vol. 22 (1982), pp. 31–46.

- 1982b *Uncountable admissibles, I: Forcing*. **Transactions of the American Mathematical Society**, vol. 270 (1982), pp. 61–73.
- 1984 *Model theory for $L_{\infty\omega_1}$* . **Annals of Pure and Applied Logic**, vol. 26 (1984), pp. 103–122.
- FRIEDMAN, S. D. and SHELAH, S.
- 1983 *Tall α -recursive structures*. **Proceedings of the American Mathematical Society**, vol. 88 (1983), pp. 672–678.
- FUCHINO, S.
- 1983 *Klassifikationstheorie nicht-elementarer Klassen*. Master's Thesis, Freie Universität zu Berlin, 1983, 60 pp.
- FUCHS, L.
- 1970 **Infinite Abelian Groups. Volume I**. Academic Press, 1970, xi+290 pp.
- 1973 **Infinite Abelian Groups. Volume II**. Academic Press, 1973, ix+363 pp.
- FUHRKEN, E. G.
- 1962a *Countable first-order languages with a generalized quantifier*. **Journal of Symbolic Logic**, vol. 27 (1962), p. 479. Abstract.
- 1962b *First-order languages with a generalized quantifier: Minimal models of first-order theories*. Doctoral Dissertation, University of California, Berkeley, 1962, 65 pp.
- 1964 *Skolem-type normal forms for first-order languages with a generalized quantifier*. **Fundamenta Mathematicae**, vol. 54 (1964), pp. 291–302.
- 1965 *Languages with added quantifier "there exist at least \aleph_α "*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 121–131.
- 1970 *On the degree of compactness of the languages Q_α* . Manuscript, University of Colorado, University of Minnesota, 1970, 3 pp.
- 1972 *A remark on the H\"artig quantifier*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 18 (1972), pp. 227–228.
- GAIFMAN, H.
- 1964 *Concerning measures on first-order calculi*. **Israel Journal of Mathematics**, vol. 2 (1964), pp. 1–18.
- 1967a *A generalization of Mahlo's method for obtaining large cardinal numbers*. **Israel Journal of Mathematics**, vol. 5 (1967), pp. 188–200.
- 1967b *Uniform extension operators for models and their applications*. In: **Sets, Models, and Recursion Theory**, edited by J. N. Crossley. North-Holland Publishing Company, 1967, pp. 122–155.

- 1974 *Operations on relational structures, functors and classes, I*. In: **Proceedings of the Tarski Symposium**, edited by L. A. Henkin. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 25 (1974), pp. 21–39.
- GAIFMAN, H. and SNIR, M.
- 1982 *Probabilities over rich languages, testing and randomness*. **Journal of Symbolic Logic**, vol. 47 (1982), pp. 495–548.
- GALE, D. and STEWART, F. M.
- 1953 *Infinite games with perfect information*. In: **Contributions to the Theory of Games. Volume II**, edited by H. W. Kuhn and A. W. Tucker. **Annals of Mathematics Studies**. Princeton University Press, vol. 28 (1953), pp. 245–266.
- GANDY, R. O.
- See: K. J. Barwise, R. O. Gandy and Y. N. Moschovakis 1971.
- GARAVAGLIA, S. C.
- 1976 *Model theory of topological structures*. Doctoral Dissertation, Yale University, 1976, 179 pp.
- 1978a *Model theory of topological structures*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 13–37.
- 1978b *Relative strength of Malitz quantifiers*. **Notre Dame Journal of Formal Logic**, vol. 19 (1978), pp. 495–503.
- GARLAND, S. J.
- 1972 *Generalized interpolation theorems*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 343–351.
- GARSON, J. W. and RESCHER, N.
- 1968 *Topological logic*. **Journal of Symbolic Logic**, vol. 33 (1968), pp. 537–548.
- GEISER, J. R.
- 1967 *Nonstandard logic*. Doctoral Dissertation, M. I. T., 1967, 184 pp.
- 1968 *Nonstandard logic*. **Journal of Symbolic Logic**, vol. 33 (1968), pp. 236–250.
- GEORGESCU, G.
- 1980 *Generalized quantifiers on polyadic algebras*. **Revue Roumaine de Mathématiques Pures et Appliquées**, vol. 25 (1980), pp. 1027–1032.
- 1982 *Algebraic analysis of the topological logic $L(I)$* . **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 28 (1982), pp. 447–454.

- 1984 *Algebraic logic for the quantifier "there exist uncountable many"*. **Journal of Symbolic Logic**, vol. 49 (1984), p. 691. Abstract.
- GEORGIS, Z. H.
 1984 *Malitz quantifiers and well orderings*. **Journal of Symbolic Logic**, vol. 49 (1984), pp. 691–692. Abstract.
- GERGELY, T.
 See: H. Andr eka, T. Gergely and I. N emeti 1977.
- GILLAM, D. W. H.
 1977 *Morley numbers for generalized languages*. **Fundamenta Mathematicae**, vol. 94 (1977), pp. 145–153.
- GILLMAN, L.
 1956 *Some remarks on η_α sets*. **Fundamenta Mathematicae**, vol. 43 (1956), pp. 77–82.
 See also: P. Erd os, L. Gillman and M. Henriksen 1955.
- GIORGETTA, D. and SHELAH, S.
 1984 *Existentially closed structures in the power of the continuum*. **Annals of Pure and Applied Logic**, vol. 26 (1984), pp. 123–148.
- GLOEDE, K.
 1975 *Set theory for infinitary languages*. In: **ISILC Logic Conference**, edited by G. H. M uller, A. Oberschelp and K. Potthoff. **Springer-Verlag Lecture Notes in Mathematics**, vol. 499 (1975), pp. 311–362.
 1977 *The metamathematics of infinitary set theoretical systems*. **Zeitschrift f ur Mathematische Logik und Grundlagen der Mathematik**, vol. 23 (1977), pp. 19–44.
- GOGOL, D.
 1973 *Low cardinality models for a type of infinitary theory*. **Fundamenta Mathematicae**, vol. 81 (1973), pp. 29–34.
 1975 *Formulas with two generalized quantifiers*. **Notre Dame Journal of Formal Logic**, vol. 16 (1975), pp. 133–136.
- GOGUEN, J. A. and BURSTALL, R. M.
 1984 *Introducing institutions*. In: **Logics of Programs**, edited by E. Clarke and D. Kozen. **Springer-Verlag Lecture Notes in Computer Science**, vol. 164 (1984), pp. 221–256.
- GOLD, B.
 1978 *Compact and ω -compact formulas in $\dot{L}_{\omega_1\omega}$* . **Archiv f ur Mathematische Logik und Grundlagenforschung**, vol. 19 (1978), pp. 50–64.
- GOLDBLATT, R. I.
 1979 **Topoi, the Categorical Analysis of Logic**. North-Holland Publishing Company, 1979, xv+486 pp.

- 1981 *Localised quantifiers*. **Journal of Symbolic Logic**, vol. 46 (1981), p. 204. Abstract.
- GOLZ, H.-J.
- 1980 *Untersuchungen zur Elimination verallgemeinerter Quantoren in Körpertheorien*. **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 29 (1980), pp. 391–397.
- GORDON, R. and ROBSON, J. C.
- 1973 **Krull Dimension**. **Memoirs of the American Mathematical Society**, vol. 133, 1973, ii+78 pp.
- GOSTANIAN, R. and HRBÁČEK, K.
- 1976 *On the failure of the weak Beth property*. **Proceedings of the American Mathematical Society**, vol. 58 (1976), pp. 245–249.
- 1980 *Propositional extensions of $L_{\omega_1\omega}$* . **Dissertationes Mathematicae (Rozprawy Matematyczne)**, vol. 169 (1980), pp. 5–54.
- GRANT, P. W.
- 1978 *The completeness of L_{ω}^{ω}* . **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 24 (1978), pp. 357–364.
- GRÄTZER, G.
- 1968 **Universal Algebra**. D. Van Nostrand Company, Inc., 1968, xvi+368 pp.
- GREEN, J.
- 1972 *Consistency properties for uncountable finite-quantifier languages*. Doctoral Dissertation, University of Maryland, 1972, 127 pp.
- 1974 Σ_1 compactness for next admissible sets. **Journal of Symbolic Logic**, vol. 39 (1974), pp. 105–116.
- 1975 *A note on P-admissible sets with urelements*. **Notre Dame Journal of Formal Logic**, vol. 16 (1975), pp. 415–417.
- 1978 κ -Suslin logic. **Journal of Symbolic Logic**, vol. 43 (1978), pp. 659–666.
- 1979 *Some model theory for game logics*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 147–152.
- GREGORY, J.
- 1970 *Elementary extensions and uncountable models for infinitary finite-quantifier language fragments. Preliminary report*. **Notices of the American Mathematical Society**, vol. 17 (1970), pp. 967–968. Abstract.
- 1971 *Incompleteness of a formal system for infinitary finite-quantifier formulas*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 445–455.

- 1973 *Uncountable models and infinitary elementary extensions*. **Journal of Symbolic Logic**, vol. 38 (1973), pp. 460–470.
- 1974 *Beth definability in infinitary languages*. **Journal of Symbolic Logic**, vol. 39 (1974), pp. 22–26.
- GROSSBERG, R. and SHELAH, S.
- 1983 *On universal locally finite groups*. **Israel Journal of Mathematics**, vol. 44 (1983), pp. 289–302.
- GRZEGORCZYK, A.
- 1951 *Undecidability of some topological theories*. **Fundamenta Mathematicae**, vol. 38 (1951), pp. 137–152.
- GRZEGORCZYK, A., MOSTOWSKI, A. and RYLL-NARDZEWSKI, C.
- 1961 *Definability of sets of models of axiomatic theories*. **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 9 (1961), pp. 163–167.
- GUDDER, S. P.
- 1979 *Stochastic methods in quantum mechanics*. North-Holland Publishing Company, 1979, xii+219 pp.
- GUICHARD, D. R.
- 1980 *A many-sorted interpolation theorem for $L(Q)$* . **Proceedings of the American Mathematical Society**, vol. 80 (1980), pp. 469–474.
- GUREVIČ, R.
- 1982 *Löwenheim-Skolem problem for functors*. **Israel Journal of Mathematics**, vol. 42 (1982), pp. 273–276.
- GUREVICH, Y.
- 1964 *Elementary properties of ordered Abelian groups (Russian)*. **Algebra i Logika**, vol. 3, no. 1 (1964), pp. 5–39.
- 1965 *Elementary properties of ordered Abelian groups*. **American Mathematical Society Translations**, vol. 46 (1965), pp. 165–192.
- 1977a *Expanded theory of ordered Abelian groups*. **Annals of Mathematical Logic**, vol. 12 (1977), pp. 193–228.
- 1977b *Monadic theory of order and topology, I*. **Israel Journal of Mathematics**, vol. 27 (1977), pp. 299–319.
- 1979a *Modest theory of short chains, I*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 481–490.
- 1979b *Monadic theory of order and topology, II*. **Israel Journal of Mathematics**, vol. 34 (1979), pp. 45–71.
- 1980 *Two notes on formalized topology*. **Fundamenta Mathematicae**, vol. 107 (1980), pp. 145–148.

- 1982 *Crumbly spaces*. In: **Logic, Methodology and Philosophy of Science VI**, edited by L. J. Cohen, J. Loś, H. Pfeiffer and K.-P. Podewski. North-Holland Publishing Company, 1982, pp. 179–191.
- GUREVICH, Y. and HARRINGTON, L. A.
- 1982 *Trees, automata, and games*. In: **Theory of Computing**, edited by H. R. Lewis. Association for Computing Machinery, 1982, pp. 60–65.
- GUREVICH, Y., MAGIDOR, M. and SHELAH, S.
- 1983 *The monadic theory of ω_2* . **Journal of Symbolic Logic**, vol. 48 (1983), pp. 387–398.
- GUREVICH, Y. and SCHMITT, P. H.
- 1984 *The theory of ordered Abelian groups does not have the independence property*. **Transactions of the American Mathematical Society**, vol. 284 (1984), pp. 171–182.
- GUREVICH, Y. and SHELAH, S.
- 1979 *Modest theory of short chains, II*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 491–502.
- 1981a *Arithmetic is not interpretable in the monadic theory of the real line (Hebrew)*. Manuscript, Institute for Advanced Studies of Hebrew University, 1981, 15 pp.
- 1981b *The decision problem for branching time logic*. Manuscript, Institute for Advanced Studies of Hebrew University, 1981, 40 pp.
- 1981c *The monadic theory and the “next world”*. Technical Report, Institute for Advanced Studies of Hebrew University, 1981, 30 pp.
- 1982 *Monadic theory of order and topology in ZFC*. **Annals of Mathematical Logic**, vol. 23 (1982), pp. 179–198.
- 1983a *Interpreting second-order logic in the monadic theory of order*. **Journal of Symbolic Logic**, vol. 48 (1983), pp. 816–828.
- 1983b *Rabin’s uniformization problem*. **Journal of Symbolic Logic**, vol. 48 (1983), pp. 1105–1119.
- 1983c *Random models and the Gödel case of the decision problem*. **Journal of Symbolic Logic**, vol. 48 (1983), pp. 1120–1124.
- HÁJEK, P.
- 1976 *Some remarks on observational model-theoretic languages*. In: **Set Theory and Hierarchy Theory: A Memorial Tribute to Andrzej Mostowski**, edited by W. Marek, M. Srebrny and A. Zarach. Springer-Verlag Lecture Notes in Mathematics, vol. 537 (1976), pp. 335–345.
- 1977 *Generalized quantifiers and finite sets*. In: **Set Theory and Hierarchy Theory**, edited by Y. Bar-Hillel. **Prace Naukowe Instytutu Matematyki Politechniki Wrocławskiej**, Wrocław, vol. 14 (1977), pp. 91–104.

HAJNAL, A.

See: P. Erdős and A. Hajnal 1958; P. Erdős and A. Hajnal 1962; P. Erdős, A. Hajnal and R. Rado 1965.

HALL, P.

1959 *Some constructions for locally finite groups.* **Proceedings of the Cambridge Philosophical Society**, vol. 34 (1959), pp. 305–319.

HALPERN, J. D.

1975 *Transfer theorems for topological structures.* **Pacific Journal of Mathematics**, vol. 61 (1975), pp. 427–440.

HALPERN, J. D. and LÉVY, A.

1971 *The Boolean prime ideal theorem does not imply the axiom of choice.* In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 83–134.

HANF, W.

1960 *Models of languages with infinitely long expressions.* **Abstracts of Contributed Papers from the First Logic, Methodology and Philosophy of Science Congress.** Stanford University. 1960, vol. 1 (1960), p. 24. Abstract.

1963 *Some fundamental problems concerning languages with infinitely long expressions.* Doctoral Dissertation, University of California, Berkeley, 1963, 96 pp.

1964 *Incompactness in languages with infinitely long expressions.* **Fundamenta Mathematicae**, vol. 53 (1964), pp. 309–324.

1965 *Model theoretic methods in the study of elementary logic.* In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 132–145.

HANF, W. and SCOTT, D. S.

1961 *Classifying inaccessible cardinals.* **Notices of the American Mathematical Society**, vol. 8 (1961), p. 445. Abstract.

HAREL, D.

1979a *Characterizing second-order logic with first-order quantifiers.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 25 (1979), pp. 419–422.

1979b **First-order Dynamic Logic.** Springer-Verlag Lecture Notes in Computer Science, vol. 68, 1979, x+133 pp.

1983 *Dynamic logic.* Manuscript, Department of Applied Mathematics, The Weizmann Institute of Science, 1983, vi+151 pp.

HARNIK, V.

1974 *Lecture notes on $L_{\omega_1, \omega}$.* Manuscript, Dartmouth College, 1974.

- 1976 *Approximation theorems and model theoretic forcing.* **Journal of Symbolic Logic**, vol. 41 (1976), pp. 59–72.
- 1979 *Refinements of Vaught's normal form theorem.* **Journal of Symbolic Logic**, vol. 44 (1979), pp. 289–306.
- HARNIK, V. and MAKKAI, M.
- 1976 *Applications of Vaught sentences and the covering theorem.* **Journal of Symbolic Logic**, vol. 41 (1976), pp. 171–187.
- 1977 *A tree argument in infinitary model theory.* **Proceedings of the American Mathematical Society**, vol. 67 (1977), pp. 309–314.
- 1979 *New axiomatizations for logics with generalized quantifiers.* **Israel Journal of Mathematics**, vol. 32 (1979), pp. 257–281.
- HARRINGTON, L. A.
- 1980 *Extensions of countable infinitary logic which preserve most of its nice properties.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 20 (1980), pp. 95–102.
See also: Y. Gurevich and L. A. Harrington 1982.
- HARRINGTON, L. A., MAKKAI, M. and SHELAH, S.
- 198? *A proof of Vaught's conjecture for ω -stable theories.* **Israel Journal of Mathematics**. To appear.
- HARRINGTON, L. A. and MOSCHOVAKIS, Y. N.
- 1974 *On positive induction vs. nonmonotone induction.* Manuscript, University of California, Los Angeles, 1974, 8 pp.
- HARRINGTON, L. A. and SHELAH, S.
- 1982 *Counting equivalence classes for co- κ -Souslin equivalence relations.* In: **Logic Colloquium '80**, edited by D. van Dalen, D. Lascar and T. J. Smiley. North-Holland Publishing Company, 1982, pp. 147–152.
- HÄRTIG, H.
- 1965 *Über einen Quantifikator mit zwei Wirkungsbereichen.* In: **Colloquium on the Foundations of Mathematics, Mathematical Machines and their Applications**, edited by L. Kalmár. Akadémiai Kiadó, Budapest, 1965, pp. 31–36.
- HATCHER, W. S.
- See:** J. Corcoran, W. S. Hatcher, and J. M. Herring 1972.
- HAUSCHILD, K.
- 1975 *Über zwei Spiele und ihre Anwendungen in der Modelltheorie.* **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 24 (1975), pp. 783–788.

- 1980 *Generalized Hartig quantifiers*. *Bulletin de l'Acad mie Polonaise des Sciences, S rie des Sciences Math matiques*, vol. 28 (1980), pp. 523–528.
- 1981 *Zum Vergleich von Hartigquantor und Rescherquantor*. *Zeitschrift f r Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 255–264.
- HAUSCHILD, K. and HERRE, H.
- 1976 *Entscheidungsprobleme f r Theorien in nichtelementaren Logiken*. Technical Report, Akademie der Wissenschaften der DDR, Zentralinstitut f r Mathematik und Mechanik, Berlin, 1976, 213 pp.
- HAUSCHILD, K. and RAUTENBERG, W.
- 1971 *Interpretierbarkeit in der Gruppentheorie*. *Algebra Universalis*, vol. 1 (1971), pp. 136–151.
- 1973 *Entscheidungsprobleme der Theorie zweier aquivalenzrelationen mit beschrankter Zahl von Elementen in den Klassen*. *Fundamenta Mathematicae*, vol. 81 (1973), pp. 35–41.
- HAUSCHILD, K. and WOLTER, H.
- 1969 *Über die Kategorisierbarkeit gewisser K rper in nichtelementaren Logiken*. *Zeitschrift f r Mathematische Logik und Grundlagen der Mathematik*, vol. 15 (1969), pp. 157–162.
- HAVRANEK, T.
- 1975 *Statistical quantifiers in observational calculi: An application in GUHA-methods*. *Theory and Decision*, vol. 6 (1975), pp. 213–230.
- HEINDORF, L.
- 1979 *Entscheidungsprobleme topologischer Raume*. Doctoral Dissertation, Humboldt–Universitat, Berlin, 1979, 141 pp.
- 1980 *The decidability of the L^t -theory of Boolean spaces*. *Wissenschaftliche Zeitschrift der Humboldt-Universitat zu Berlin. Mathematisch-Naturwissenschaftliche Reihe*, vol. 29 (1980), pp. 413–419.
- 1981 *Comparing the expressive power of some languages for Boolean algebras*. *Zeitschrift f r Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 419–434.
- HELLING, M.
- 1964 *Hanf numbers for some generalizations of first-order languages*. *Notices of the American Mathematical Society*, vol. 11 (1964), p. 679. Abstract.
- 1966 *Model-theoretic problems for some extensions of first-order languages*. Doctoral Dissertation, University of California, Berkeley, 1966, 64 pp.

HELMER, O.

- 1938 *Languages with expressions of infinite length*. *Erkenntnis*, vol. 7 (1938), pp. 138–141.

HENKIN, L. A.

- 1954 *A generalization of the concept of ω -consistency*. *Journal of Symbolic Logic*, vol. 19 (1954), pp. 183–196.
- 1957 *A generalization of the concept of ω -completeness*. *Journal of Symbolic Logic*, vol. 22 (1957), pp. 1–14.
- 1961 *Some remarks on infinitely long formulas*. In: *Infinitistic Methods: Proceedings of the Symposium on Foundations of Mathematics*, edited by Anonymous. Pergamon Press and Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1961, pp. 167–183.
- 1963 *An extension of the Craig-Lyndon theorem*. *Journal of Symbolic Logic*, vol. 28 (1963), pp. 201–216.

HENRIKSEN, M.

See: P. Erdős, L. Gillman and M. Henriksen 1955.

HENSON, C. W.

- 1979 *Analytic sets, Baire sets and the standard part map*. *Canadian Journal of Mathematics*, vol. 31 (1979), pp. 663–672.

HENSON, C. W., JOCKUSCH, C. G., RUBEL, L. A. and TAKEUTI, G.

- 1977 *First order topology*. *Dissertationes Mathematicae (Rozprawy Matematyczne)*, vol. 143 (1977), pp. 1–38.

HERRE, H.

- 1976 *Entscheidungsprobleme für Theorien in Logiken mit verallgemeinerten Quantoren*. Habilitationsschrift, Humboldt-Universität, Berlin, 1976, 156 pp.
- 1977 *Decidability of theories in logics with additional monadic quantifiers*. In: *Proceedings of the Symposia on Mathematical Logic in Oulu '74 and Helsinki '75*, edited by S. Miettinen and J. Väänänen. *Reports from the Department of Philosophy, University of Helsinki*, vol. 2 (1977), pp. 77–80.

See also: K. Hauschild and H. Herre 1976; H. Wolter and H. Herre 1977.

HERRE, H. and PINUS, A. G.

- 1978 *Zum Entscheidungsproblem für Theorien in Logiken mit monadischen verallgemeinerten Quantoren*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 24 (1978), pp. 375–384.

HERRE, H. and WOLTER, H.

- 1975 *Entscheidbarkeit von Theorien in Logiken mit verallgemeinerten Quantoren*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 21 (1975), pp. 229–246.
- 1977 *Entscheidbarkeit der Theorie der linearen Ordnung in L_{Q_1}* . *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 23 (1977), pp. 273–282.
- 1978 *Entscheidbarkeit der Theorie der linearen Ordnung in L_{Q_κ} für reguläres ω_κ* . *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 24 (1978), pp. 73–78.
- 1979a *Decidability of the theory of linear orderings with cardinality quantifier Q_α* . *Notices of the American Mathematical Society*, vol. 26 (1979), p. A16. Abstract.
- 1979b *Entscheidbarkeit der Theorie der linearen Ordnung in Logiken mit Mächtigungsquantoren bzw. mit Chang-Quantor*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 25 (1979), pp. 345–358.

HERRING, J. M.

See: J. Corcoran and J. M. Herring 1971; J. Corcoran, W. S. Hatcher, and J. M. Herring 1972.

HERRMANN, E. and WOLTER, H.

- 1980 *Untersuchungen zu schwachen Logiken der zweiten Stufe*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 26 (1980), pp. 59–68.

HICKIN, K. K.

- 1978 *Complete universal locally finite groups*. *Transactions of the American Mathematical Society*, vol. 239 (1978), pp. 213–227.

HIEN, B. H. and SAIN, I.

- 1982 *Elementary classes in the injective subcategories approach to abstract model theory*. Manuscript, Mathematical Institute, Hungarian Academy of Sciences, 1982, 31 pp.

HILL, P.

- 1973 *New criteria for freeness in Abelian groups*. *Transactions of the American Mathematical Society*, vol. 182 (1973), pp. 201–209.

HINTIKKA, K. J. J.

- 1955 *Reductions in the theory of types*. *Acta Philosophica Fennica*, vol. 8 (1955), pp. 57–115.

HINTIKKA, K. J. J. and RANTALA, V.

- 1976 *A new approach to infinitary languages*. *Annals of Mathematical Logic*, vol. 10 (1976), pp. 95–115.

HODGES, W.

- 1974 *A normal form for algebraic constructions*. **Bulletin of the London Mathematical Society**, vol. 6 (1974), pp. 57–60.
- 1975 *A normal form for algebraic constructions, II*. **Logique et Analyse**, vol. 18 (1975), pp. 429–487.
- 1976 *On the effectivity of some field constructions*. **Proceedings of the London Mathematical Society**, vol. 32 (1976), pp. 133–162.
- 1980a *Constructing pure injective hulls*. **Journal of Symbolic Logic**, vol. 45 (1980), pp. 544–548.
- 1980b *Functorial uniform reducibility*. **Fundamenta Mathematicae**, vol. 108 (1980), pp. 77–81.
- 1981 *In singular cardinality, locally free algebras are free*. **Algebra Universalis**, vol. 12 (1981), pp. 205–220.
- 1984 *Models built on linear orderings*. In: **Ordered Sets and Their Applications**, edited by M. Pouzet and D. Richard. North-Holland Publishing Company, 1984, pp. 207–234.

HODGES, W. and SHELAH, S.

- 1981 *Infinite games and reduced products*. **Annals of Mathematical Logic**, vol. 20 (1981), pp. 77–108.

HOOVER, D. N.

- 1978a *Model theory of probability logic*. Doctoral Dissertation, University of Wisconsin, 1978, iii+99 pp.
- 1978b *Probability logic*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 287–313.
- 1980 *First order logic with an oracle*. Manuscript, Princeton University, 1980, 9 pp.
- 1981 *Relations of probability spaces and arrays of random variables*. Manuscript, Institute for Advanced Study, Princeton, 1981, 63 pp.
- 1982 *A normal form theorem for $L_{\omega_1, p}$, with applications*. **Journal of Symbolic Logic**, vol. 47 (1982), pp. 605–624.
- 198? *A probabilistic interpolation theorem*. **Journal of Symbolic Logic**. To appear.

HOOVER, D. N. and KEISLER, H. J.

- 1984 *Adapted probability distributions*. **Transactions of the American Mathematical Society**, vol. 286 (1984), pp. 159–201.

HOOVER, D. N. and PERKINS, E.

- 1983a *Nonstandard construction of the stochastic integral and applications to stochastic differential equations, I*. **Transactions of the American Mathematical Society**, vol. 275 (1983), pp. 1–36.

- 1983b *Nonstandard construction of the stochastic integral and applications to stochastic differential equations, II*. **Transactions of the American Mathematical Society**, vol. 275 (1983), pp. 37–58.
- HRBÁČEK, K.
See: R. Gostanian and K. Hrbáček 1976; R. Gostanian and K. Hrbáček 1980; P. Vopěnka and K. Hrbáček 1966.
- HUNTER, R. H., RICHTER, M. M. and WALKER, E. A.
1977 *Warfield modules*. In: **Abelian Group Theory**, edited by D.M. Arnold, R. H. Hunter and E. A. Walker. **Springer-Verlag Lecture Notes in Mathematics**, vol. 616 (1977), pp. 87–123.
- HUTCHINSON, J. E.
1976a *Elementary extensions of countable models of set theory*. **Journal of Symbolic Logic**, vol. 41 (1976), pp. 139–145.
1976b *Model theory via set theory*. **Israel Journal of Mathematics**, vol. 24 (1976), pp. 286–304.
- ISELL, J. R.
1973 *Functorial implicit operations*. **Israel Journal of Mathematics**, vol. 15 (1973), pp. 185–188.
- ISSEL, W.
1969 *Semantische Untersuchungen über Quantoren, I*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 15 (1969), pp. 353–358.
1970a *Semantische Untersuchungen über Quantoren, II*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 16 (1970), pp. 281–296.
1970b *Semantische Untersuchungen über Quantoren, III*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 16 (1970), pp. 421–438.
- JACOBSON, N.
1951 **Lectures in Abstract Algebra. Volume I: Basic Concepts**. D. Van Nostrand Company, Inc., 1951, xii+217 pp.
1953 **Lectures in Abstract Algebra. Volume II: Linear Algebra**. D. Van Nostrand Company, Inc., 1953, xii+280 pp.
1964 **Lectures in Abstract Algebra. Volume III: Theory of Fields and Galois Theory**. D. Van Nostrand Company, Inc., 1964, xi+323 pp.
- JACOBY, C.
1980 *The classification in $L_{\infty\omega}$ of groups with partial decomposition bases*. Doctoral Dissertation, University of California, Irvine, 1980, 91 pp.

JANICZAK, A.

- 1953 *Undecidability of some simple formalized theories.* **Fundamenta Mathematicae**, vol. 40 (1953), pp. 131–139.

JANKOWSKI, A. W.

- 1980 *On closure spaces of filters in complete lattices of sets.* **Journal of Symbolic Logic**, vol. 45 (1980), p. 394. Abstract.
- 1982 *An alternative characterization of elementary logic.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 30 (1982), pp. 9–13.

JECH, T. J.

- 1971a *Lectures in Set Theory. With particular emphasis on the method of forcing.* **Springer-Verlag Lecture Notes in Mathematics**, vol. 217, 1971, vi+137 pp.
- 1971b *Trees.* **Journal of Symbolic Logic**, vol. 36 (1971), pp. 1–14.
- 1973 *Some combinatorial problems concerning uncountable cardinals.* **Annals of Mathematical Logic**, vol. 5 (1973), pp. 165–198.
- 1978 **Set Theory.** Academic Press, 1978, xi+621 pp.

JENSEN, A.

- 1965 *Some results concerning a general set-theoretical approach to logic.* **Mathematica Scandinavica**, vol. 16 (1965), pp. 5–24.

JENSEN, F. V.

- 1974 *Interpolation and definability in abstract logics.* **Synthese**, vol. 27 (1974), pp. 251–257.
- 1975 *On completeness in cardinality logics.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 23 (1975), pp. 117–122.
- 1976 *Souslin-Kleene does not imply Beth.* **Fundamenta Mathematicae**, vol. 90 (1976), pp. 269–273.

JENSEN, R. B.

- 1969a *Automorphism properties of Souslin continua.* **Notices of the American Mathematical Society**, vol. 16 (1969), p. 576. Abstract.
- 1969b *Souslin's hypothesis = weak compactness in L.* **Notices of the American Mathematical Society**, vol. 16 (1969), p. 842. Abstract.
- 1972 *The fine structure of the constructible hierarchy.* **Annals of Mathematical Logic**, vol. 4 (1972), pp. 229–308. Erratum on p. 443.
See also: H.-D. Donder, R. B. Jensen and B. J. Koppelberg 1981; H. M. Friedman and R. B. Jensen 1968.

JENSEN, R. B. and JOHNSBRÅTEN, H.

- 1974 *A new construction of a non-constructible Δ_3^1 subset of ω .* **Fundamenta Mathematicae**, vol. 81 (1974), pp. 279–290.

JENSEN, R. B. and KARP, C.

- 1971 *Primitive recursive set functions*. In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 143–176.

JENSEN, R. B. and KOPPELBERG, B. J.

- 1978 *A note on ultrafilters*. **Notices of the American Mathematical Society**, vol. 25 (1978), p. A250. Abstract.

JERVELL, H. R.

- 1975 *Conservative endextensions and the quantifier "there exist uncountably many"*. In: **Proceedings of the Third Scandinavian Logic Symposium**, edited by S. Kanger. North-Holland Publishing Company, 1975, pp. 63–80.

JOCKUSCH, C. G.

See: C. W. Henson, C. G. Jockusch, L. A. Rubel and G. Takeuti 1977.

JOHNSBRÅTEN, H.

See: K. J. Devlin and H. Johnsbråten 1974; R. B. Jensen and H. Johnsbråten 1974.

JÓNSSON, B.

- 1956 *Universal relational systems*. **Mathematica Scandinavica**, vol. 4 (1956), pp. 193–208.
- 1960 *Homogeneous universal relational systems*. **Mathematica Scandinavica**, vol. 8 (1960), pp. 137–142.
- 1980 *Congruence varieties*. **Algebra Universalis**, vol. 10 (1980), pp. 355–394.

KAKUDA, Y.

- 1980 *Set theory based on the language with the additional quantifier "for almost all", I*. **Mathematics Seminar Notes, Kobe University (Japan)**, vol. 8 (1980), pp. 603–609.

KANAMORI, A.

- 1976 *Weakly normal ultrafilters and irregular ultrafilters*. **Transactions of the American Mathematical Society**, vol. 220 (1976), pp. 393–399.
- See also: R. M. Solovay, W. N. Reinhardt and A. Kanamori 1978.

KANAMORI, A. and MAGIDOR, M.

- 1978 *The evolution of large cardinal axioms in set theory*. In: **Higher Set Theory**, edited by G. H. Müller and D. S. Scott. **Springer-Verlag Lecture Notes in Mathematics**, vol. 669 (1978), pp. 99–275.

KAPLAN, D.

- 1966a *Rescher's plurality quantification*. **Journal of Symbolic Logic**, vol. 31 (1966), p. 153. Abstract.
- 1966b *Generalized plurality quantification*. **Journal of Symbolic Logic**, vol. 31 (1966), p. 154. Abstract.

KAPLANSKY, I.

- 1969 **Infinite Abelian Groups. Revised Edition**. University of Michigan Press, 1969, viii+95 pp.

KARŁOWICZ, M.

See: R. Engelking and M. Karłowicz 1965.

KARP, C.

- 1962 *Independence proofs in predicate logic with infinitely long expressions*. **Journal of Symbolic Logic**, vol. 27 (1962), pp. 171–188.
- 1963 *A note on the representation of α -complete Boolean algebras*. **Proceedings of the American Mathematical Society**, vol. 14 (1963), pp. 705–707.
- 1964 **Languages with Expressions of Infinite Length**. North-Holland Publishing Company, 1964, xx+183 pp.
- 1965 *Finite-quantifier equivalence*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 407–412.
- 1966a *Primitive recursive set functions: a formulation with applications to infinitary formal systems*. **Journal of Symbolic Logic**, vol. 31 (1966), p. 294. Abstract.
- 1966b *Applications of recursive set functions to infinitary logic*. **Journal of Symbolic Logic**, vol. 31 (1966), p. 698. Abstract.
- 1967 *Non-axiomatizability results for infinitary systems*. **Journal of Symbolic Logic**, vol. 32 (1967), pp. 367–384.
- 1968 *An algebraic proof of the Barwise compactness theorem*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag **Lecture Notes in Mathematics**, vol. 72 (1968), pp. 80–95.
- 1972 *From countable to cofinality ω in infinitary model theory*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 430–431. Abstract.
- 1974 *Infinitary languages and ω -chains of models*. In: **Proceedings of the Tarski Symposium**, edited by L. A. Henkin. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 25 (1974), pp. 225–232.

See also: R. B. Jensen and C. Karp 1971.

KARTTUNEN, M.

- 1979 *Infinitary languages $N_{\infty\lambda}$ and generalized partial isomorphisms*. In: **Essays on Mathematical and Philosophical Logic**, edited by K. J. J. Hintikka, I. Niiniluoto, and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 153–168.

KAUFMANN, M. J.

- 1977a *A new omitting types theorem for $L(Q)$* . **Notices of the American Mathematical Society**, vol. 24 (1977), p. A-438. Abstract.
- 1977b *Back-and-forth systems for stationary logic. Preliminary report*. **Notices of the American Mathematical Society**, vol. 24 (1977), pp. A-549–A-550. Abstract.
- 1978a *Some results in stationary logic*. Doctoral Dissertation, University of Wisconsin, 1978, iii+141 pp.
- 1978b *Some results in stationary logic*. **Journal of Symbolic Logic**, vol. 43 (1978), pp. 369–370. Abstract.
- 1979 *A new omitting types theorem for $L(Q)$* . **Journal of Symbolic Logic**, vol. 44 (1979), pp. 217–231.
- 1981a *Filter logics*. **Journal of Symbolic Logic**, vol. 46 (1981), p. 192. Abstract.
- 1981b *Filter logics: filters on ω_1* . **Annals of Mathematical Logic**, vol. 20 (1981), pp. 155–200.
- 1983a *Blunt and topless end extensions of models of set theory*. **Journal of Symbolic Logic**, vol. 48 (1983), pp. 1053–1073.
- 1983b *Set theory with a filter quantifier*. **Journal of Symbolic Logic**, vol. 48 (1983), pp. 263–287.
- 1984a *Filter logics on ω* . **Journal of Symbolic Logic**, vol. 49 (1984), pp. 241–256.
- 1984b *On expandability of models of arithmetic and set theory to models of weak second-order theories*. **Fundamenta Mathematicae**, vol. 122 (1984), pp. 57–60.

See also: K. J. Barwise, M. J. Kaufmann and M. Makkai 1978; K. J. Barwise, M. J. Kaufmann and M. Makkai 1981; N. J. Cutland and M. J. Kaufmann 1979; N. J. Cutland and M. J. Kaufmann 1980; S. Shelah and M. J. Kaufmann 198?a; S. Shelah and M. J. Kaufmann 198?b.

KAUFMANN, M. J. and KRANAKIS, E.

- 1984 *Definable ultrapowers and ultrafilters over admissible ordinals*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 30 (1984), pp. 97–118.

KECHRIS, A. S. and MOSCHOVAKIS, Y. N.

- 1977 *Recursion in higher types*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 681–737.

KEGEL, O. H. and WEHRFRITZ, B. A. F.

1973 **Locally Finite Groups**. North-Holland Publishing Company, 1973, xi+210 pp.

KEISLER, H. J.

1962 *Some applications of the theory of models to set theory*. In: **Logic, Methodology and Philosophy of Science**, edited by E. Nagel, P. Suppes and A. Tarski. Stanford University Press, 1962, pp. 80–86.

1963a *A complete first-order logic with infinitary predicates*. **Fundamenta Mathematicae**, vol. 52 (1963), pp. 177–203.

1963b *Limit ultrapowers*. **Transactions of the American Mathematical Society**, vol. 107 (1963), pp. 382–408.

1964 *On cardinalities of ultraproducts*. **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 70 (1964), pp. 644–647.

1965a *A survey of ultraproducts*. In: **Logic, Methodology and Philosophy of Science**, edited by Y. Bar-Hillel. North-Holland Publishing Company, 1965, pp. 112–126.

1965b *Extending models of set theory*. **Journal of Symbolic Logic**, vol. 30 (1965), p. 269. Abstract.

1965c *Finite approximations of infinitely long formulas*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 158–169.

1965d *Some applications of infinitely long formulas*. **Journal of Symbolic Logic**, vol. 30 (1965), pp. 339–349.

1966a *First order properties of pairs of cardinals*. **Bulletin of the American Mathematical Society**, vol. 72 (1966), pp. 141–144.

1966b *Some model theoretic results for ω -logic*. **Israel Journal of Mathematics**, vol. 4 (1966), pp. 249–261.

1967a *A three-cardinal theorem for ω -logic*. **Notices of the American Mathematical Society**, vol. 14 (1967), p. 256. Abstract.

1967b *Ultraproducts which are not saturated*. **Journal of Symbolic Logic**, vol. 32 (1967), pp. 23–46.

1968a *Formulas with linearly ordered quantifiers*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 96–130.

1968b *Models with orderings*. In: **Logic, Methodology and Philosophy of Science III**, edited by B. van Rootselaar and J. F. Staal. North-Holland Publishing Company, 1968, pp. 35–62.

1969a *Categorical theories in infinitary logic*. **Notices of the American Mathematical Society**, vol. 16 (1969), p. 437. Abstract.

- 1969b *Infinite quantifiers and continuous games*. In: **Applications of Model Theory to Algebra, Analysis, and Probability**, edited by W. A. J. Luxemburg. Holt, Rinehart and Winston, 1969, pp. 228–264.
- 1970 *Logic with the quantifier “there exist uncountably many”*. **Annals of Mathematical Logic**, vol. 1 (1970), pp. 1–93.
- 1971a **Model Theory for Infinitary Logic: Logic with Countable Conjunctions and Finite Quantifiers**. North-Holland Publishing Company, 1971, x+208 pp.
- 1971b *Model theory*. In: **Actes du Congrès International des Mathématiciens. Tome I**, edited by M. Berger. Gauthier-Villars, Paris, 1971, pp. 141–150.
- 1973 *Forcing and the omitting types theorem*. In: **Studies in Model Theory**, edited by M. D. Morley. **Mathematical Association of America, Studies in Mathematics**, vol. 8 (1973), pp. 96–133.
- 1974 *Models with tree structures*. In: **Proceedings of the Tarski Symposium**, edited by L. A. Henkin. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 25 (1974), pp. 331–348.
- 1975 *Constructions in model theory*. In: **Model Theory and Applications**, edited by P. Mangani. Edizioni Cremonese, Rome, 1975, pp. 56–108.
- 1976 **Foundations of Infinitesimal Calculus**. Prindle, Weber & Schmidt, 1976, x+214 pp.
- 1977a *Fundamentals of model theory*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 47–103.
- 1977b *Hyperfinite model theory*. In: **Logic Colloquium '76**, edited by J. M. E. Hyland and R. O. Gandy. North-Holland Publishing Company, 1977, pp. 5–110.
- 1977c *The monotone class theorem in infinitary logic*. **Proceedings of the American Mathematical Society**, vol. 64 (1977), pp. 129–134.
- 1979 *Hyperfinite probability theory and probability logic*. Manuscript, University of Wisconsin, 1979, 133 pp.
- 1980 *Reshuffling theorems for finite Markov processes*. **Abstracts of Papers Presented to the American Mathematical Society**, vol. 1 (1980), p. 146. Abstract.
- 1984 **An Infinitesimal Approach to Stochastic Analysis**. **Memoirs of the American Mathematical Society**, vol. 48, 1984, x+184 pp.
See also: K. B. Bruce and H. J. Keisler 1979; C. C. Chang and H. J. Keisler 1962; C. C. Chang and H. J. Keisler 1973; C. C. Chang and H. J. Keisler 1977; D. N. Hoover and H. J. Keisler 1984.

KEISLER, H. J. and MORLEY, M. D.

1967 *On the number of homogeneous models of a given power.* **Israel Journal of Mathematics**, vol. 5 (1967), pp. 73–78.

1968 *Elementary extensions of models of set theory.* **Israel Journal of Mathematics**, vol. 6 (1968), pp. 49–65.

KEISLER, H. J. and SILVER, J. H.

1971 *End extensions of models of set theory.* In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 177–187.

KEISLER, H. J. and TARSKI, A.

1964 *From accessible to inaccessible cardinals.* **Fundamenta Mathematicae**, vol. 53 (1964), pp. 225–308.

KEISLER, H. J. and WALKOE, W. J.

1973 *The diversity of quantifier prefixes.* **Journal of Symbolic Logic**, vol. 38 (1973), pp. 79–85.

KIERSTEAD, H. A.

1979 *Countable models of ω_1 -categorical theories in $L_{\omega_1\omega}$.* **Journal of Symbolic Logic**, vol. 44 (1979), p. 662. Abstract.

1980 *Countable models of ω_1 -categorical theories in admissible languages.* **Annals of Mathematical Logic**, vol. 19 (1980), pp. 127–175.

KIERSTEAD, H. A. and REMMEL, J. B.

1983 *Indiscernibles and decidable models.* **Journal of Symbolic Logic**, vol. 48 (1983), pp. 21–32.

KINO, A.

1966 *Definability of ordinals in logic with infinitely long expressions.* **Journal of Symbolic Logic**, vol. 31 (1966), pp. 365–375.

1967 *Correction to a paper on definability of ordinals in infinite logic.* **Journal of Symbolic Logic**, vol. 32 (1967), pp. 343–344.

See also: J. Myhill and A. Kino 1975.

KINO, A. and TAKEUTI, G.

1963 *On predicates with constructive infinitely long expressions.* **Journal of the Mathematical Society of Japan**, vol. 15 (1963), pp. 176–190.

KLEENE, S. C.

1955a *Hierarchies of number-theoretic predicates.* **Bulletin of the American Mathematical Society**, vol. 61 (1955), pp. 193–213.

1955b *On the forms of the predicates in the theory of constructive ordinals, II.* **American Journal of Mathematics**, vol. 77 (1955), pp. 405–428.

KNIGHT, J. F.

- 1976 *Hanf numbers for omitting types over particular theories.* **Journal of Symbolic Logic**, vol. 41 (1976), pp. 583–588.
- 1977 *A complete $L_{\omega_1\omega}$ -sentence characterizing \aleph_1 .* **Journal of Symbolic Logic**, vol. 42 (1977), pp. 59–62.

KOGALOVSKIĬ, S. R.

- 1966 *On higher order logic.* **Soviet Mathematics, Doklady**, vol. 7 (1966), pp. 1642–1645.

KOKORIN, A. I. and PINUS, A. G.

- 1978 *Decidability problems of extended theories.* **Russian Mathematical Surveys**, vol. 33 (1978), pp. 53–96.

KOLAITIS, P. G.

- 1980 *Recursion and nonmonotone induction in a quantifier.* In: **The Kleene Symposium**, edited by K. J. Barwise, H. J. Keisler and K. Kunen. North-Holland Publishing Company, 1980, pp. 367–389.

KOPPELBERG, B. J.

- See:** H.-D. Donder, R. B. Jensen and B. J. Koppelberg 1981; R. B. Jensen and B. J. Koppelberg 1978.

KOPPERMAN, R. D.

- 1967a *Application of infinitary languages to metric spaces.* **Pacific Journal of Mathematics**, vol. 23 (1967), pp. 299–310.
- 1967b *On the axiomatizability of uniform spaces.* **Journal of Symbolic Logic**, vol. 32 (1967), pp. 289–294.
- 1967c *The $L_{\omega_1\omega_1}$ -theory of Hilbert spaces.* **Journal of Symbolic Logic**, vol. 32 (1967), pp. 295–304.
- 1969 *Applications of infinitary languages to analysis.* In: **Applications of Model Theory to Algebra, Analysis, and Probability**, edited by W. A. J. Luxemburg. Holt, Rinehart and Winston, 1969, pp. 265–273.
- 1972 **Model Theory and its Applications.** Allyn and Bacon, 1972, x+333 pp.

KOPPERMAN, R. D. and MATHIAS, A. R. D.

- 1968 *Some problems in group theory.* In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag **Lecture Notes in Mathematics**, vol. 72 (1968), pp. 131–138.

KOSCIUK, S.

- 1982 *Non-standard stochastic methods in diffusion theory.* Doctoral Dissertation, University of Wisconsin, Madison, 1982, v+54 pp.

KOTLARSKI, H.

- 1974 *On the existence of well-ordered models.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 22 (1974), pp. 459–462.
- 1978 *Some remarks on well-ordered models.* **Fundamenta Mathematicae**, vol. 99 (1978), pp. 123–132.

KOWALSKY, H.-J. and DÜRBAUM, H.

- 1953 *Arithmetische Kennzeichnung von Körpertopologien.* **Journal für die Reine und Angewandte Mathematik**, vol. 191 (1953), pp. 135–152.

KRANAKIS, E.

See: M. J. Kaufmann and E. Kranakis 1984.

KRAUSS, P. H.

- 1969 *Representation of symmetric probability models.* **Journal of Symbolic Logic**, vol. 34 (1969), pp. 183–193.

KRAUSS, P. H. and SCOTT, D. S.

- 1966 *Assigning probabilities to logical formulas.* In: **Aspects of Inductive Logic**, edited by K. J. J. Hintikka and P. Suppes. North-Holland Publishing Company, 1966, pp. 219–264.

KRAWCZYK, A.

- 1975 *On a class of models for sentences of languages L_A .* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 23 (1975), pp. 381–385.
- 1977 *On classes of models for sentences of languages L_A .* In: **Proceedings of the Symposia on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. Väänänen. **Reports from the Department of Philosophy, University of Helsinki**, vol. 2 (1977), pp. 81–88.

KRAWCZYK, A. and KRYNICKI, M.

- 1976 *Ehrenfeucht games for generalized quantifiers.* In: **Set Theory and Hierarchy Theory: A Memorial Tribute to Andrzej Mostowski**, edited by W. Marek, M. Srebrny and A. Zarach. **Springer-Verlag Lecture Notes in Mathematics**, vol. 537 (1976), pp. 145–152.

KRAWCZYK, A. and MAREK, W.

- 1977 *On the rules of proof generated by hierarchies.* In: **Set Theory and Hierarchy Theory V**, edited by A. H. Lachlan, M. Srebrny and A. Zarach. **Springer-Verlag Lecture Notes in Mathematics**, vol. 619 (1977), pp. 227–239.

KREISEL, G.

1965 *Model-theoretic invariants*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 190–205.

1967 *Review of [Craig 1965]*. **Mathematical Reviews**, vol. 33 (1967), pp. 659–660.

1968 *Choice of infinitary languages by means of definability criteria: generalized recursion theory*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 139–151.

See also: S. Feferman and G. Kreisel 1966; S. G. Simpson, G. Kreisel and G. E. Minc 1975.

KREISEL, G. and KRIVINE, J. L.

1967 **Elements of Mathematical Logic (Model Theory)**. North-Holland Publishing Company, 1967, xi+222 pp.

KREISEL, G. and SACKS, G. E.

1965 *Metarecursive sets*. **Journal of Symbolic Logic**, vol. 30 (1965), pp. 318–338.

KRIPKE, S. A.

1964a *Transfinite recursions on admissible ordinals, I*. **Journal of Symbolic Logic**, vol. 29 (1964), p. 161. Abstract.

1964b *Transfinite recursions on admissible ordinals, II*. **Journal of Symbolic Logic**, vol. 29 (1964), pp. 161–162. Abstract.

KRIVINE, J. L.

1974 *Langages à valeurs réelles et applications*. **Fundamenta Mathematicae**, vol. 81 (1974), pp. 213–253.

See also: G. Kreisel and J. L. Krivine 1967.

KRIVINE, J. L. and MCALOON, K.

1973 *Forcing and generalized quantifiers*. **Annals of Mathematical Logic**, vol. 5 (1973), pp. 199–255.

KRYNICKI, M.

1977a *Some consequences of the omitting and realizing types properties*. In: **Proceedings of the Symposiums on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. Väänänen. Reports from the Department of Philosophy, University of Helsinki, vol. 2 (1977), pp. 33–43.

1977b *Henkin quantifier and decidability*. In: **Proceedings of the Symposiums on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. Väänänen. Reports from the Department of Philosophy, University of Helsinki, vol. 2 (1977), pp. 89–90.

- 1979 *On the expressive power of the language using the Henkin quantifier.* In: **Essays on Mathematical and Philosophical Logic**, edited by K. J. J. Hintikka, I. Niiniluoto, and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 259–265.
- 1982 *On some approximations of second-order languages.* Manuscript, Batna University, 1982, 12 pp.
- See also: A. Krawczyk and M. Krynicki 1976.
- KRYNICKI, M. and LACHLAN, A. H.
- 1979 *On the semantics of the Henkin quantifier.* **Journal of Symbolic Logic**, vol. 44 (1979), pp. 184–200.
- KRYNICKI, M., LACHLAN, A. H. and VÄÄNÄNEN, J.
- 1984 *Vector spaces and binary quantifiers.* **Notre Dame Journal of Formal Logic**, vol. 25 (1984), pp. 72–78.
- KRYNICKI, M. and VÄÄNÄNEN, J.
- 1982 *On orderings of the family of all logics.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 22 (1982), pp. 141–158.
- KUEKER, D. W.
- 1967 *Some results on definability theory.* Doctoral Dissertation, University of California, Los Angeles, 1967, 77 pp.
- 1968 *Definability, automorphisms, and infinitary languages.* In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 152–165.
- 1970 *Generalized interpolation and definability.* **Annals of Mathematical Logic**, vol. 1 (1970), pp. 423–468.
- 1972 *Löwenheim-Skolem and interpolation theorems in infinitary languages.* **Bulletin of the American Mathematical Society**, vol. 78 (1972), pp. 211–215.
- 1973 *Free and almost free algebras.* **Notices of the American Mathematical Society**, vol. 20 (1973), p. A-31. Abstract.
- 1975 *Back-and-forth arguments in infinitary logic.* In: **Infinitary Logic: In Memoriam Carol Karp**, edited by D. W. Kueker. Springer-Verlag Lecture Notes in Mathematics, vol. 492 (1975), pp. 17–71.
- 1977 *Countable approximations and Löwenheim-Skolem theorems.* **Annals of Mathematical Logic**, vol. 11 (1977), pp. 57–103.
- 1978 *Uniform theorems in infinitary logic.* In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 161–170.
- 1980 *Almost-free algebras of power \aleph_1 .* Manuscript, University of Maryland, 1980, 9 pp.

- 1981 $L_{\infty\omega_1}$ -elementarily equivalent models of power ω_1 . In: **Logic Year 1979–80**, edited by M. Lerman, J. H. Schmerl and R. I. Soare. **Springer-Verlag Lecture Notes in Mathematics**, vol. 859 (1981), pp. 120–131.
 See also: J. T. Baldwin and D. W. Kueker 1980.
- KUNEN, K.**
- 1968a *Implicit definability and infinitary languages*. **Journal of Symbolic Logic**, vol. 33 (1968), pp. 446–451.
- 1968b *Inaccessibility properties of cardinals*. Doctoral Dissertation, Stanford University, 1968, 112 pp.
- 1970 *Some applications of iterated ultrapowers in set theory*. **Annals of Mathematical Logic**, vol. 1 (1970), pp. 179–227.
- 1977 *Combinatorics*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 371–401.
- 1980 **Set Theory: An Introduction to Independence Proofs**. North-Holland Publishing Company, 1980, xvi+313 pp.
 See also: K. J. Barwise and K. Kunen 1971.
- KUNEN, K. and PRIKRY, K. L.**
- 1971 *On descendingly incomplete ultrafilters*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 650–652.
- KUNEN, K. and VAN DOUWEN, E. K.**
- 1982 *L-spaces and S-spaces in $P(\omega)$* . **Topology and its Applications**, vol. 14 (1982), pp. 143–149.
- KURATOWSKI, K.**
- 1966 **Topology. Volume I**. Academic Press and Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1966, xx+560 pp.
- 1968 **Topology. Volume II**. Academic Press and Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1968, xiv+608 pp.
- KURATOWSKI, K. and MOSTOWSKI, A.**
- 1968 **Set Theory (First Edition)**. Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers) and North-Holland Publishing Company, 1968, xi+417 pp.
- 1976 **Set Theory with an Introduction to Descriptive Set Theory (Second Edition)**. Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers) and North-Holland Publishing Company, 1976, xiv+514 pp.
- KUREPA, D.**
- 1952 *Sur une propriété caractéristique du continu linéaire et le problème de Souslin*. **Académie Serbe des Sciences, Publications de l'Institut Mathématique (Belgrade)**, vol. 4 (1952), pp. 97–108.

LACHLAN, A. H.

1973 *A property of stable theories*. **Fundamenta Mathematicae**, vol. 77 (1973), pp. 9–20.

See also: J. T. Baldwin and A. H. Lachlan 1971; M. Krynicky and A. H. Lachlan 1979; M. Krynicky, A. H. Lachlan and J. Väänänen 1984.

LANDRAITIS, C. K.

1980 *$L_{\omega_1\omega}$ equivalence between countable and uncountable linear orderings*. **Fundamenta Mathematicae**, vol. 107 (1980), pp. 99–112.

LANDWEBER, L. H.

See: J. R. Büchi and L. H. Landweber 1969a; J. R. Büchi and L. H. Landweber 1969b.

LANGFORD, C. H.

1926 *Some theorems on deducibility*. **Annals of Mathematics**, vol. 28 (1926), pp. 16–40.

LASCAR, D. and POIZAT, B.

1979 *An introduction to forking*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 330–350.

LASSAIGNE, R.

1971a *Produits réduits et langages infinis. Thèse de 3^e cycle*. Doctoral Dissertation, Université de Paris VII, 1971, 53 pp.

1971b *Produits réduits et langages infinis*. **Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A**, vol. 273 (1971), pp. 791–794.

See also: J. P. Ressayre and R. Lassaigne 1974.

LÄUCHLI, H.

1968 *A decision procedure for the weak second-order theory of linear order*. In: **Contributions to Mathematical Logic**, edited by H. A. Schmidt, K. Schütte and H.-J. Thiele. North-Holland Publishing Company, 1968, pp. 189–197.

LÄUCHLI, H. and LEONARD, J.

1966 *On the elementary theory of linear order*. **Fundamenta Mathematicae**, vol. 59 (1966), pp. 109–116.

LAVER, R.

1971 *On Fraïssé's order type conjecture*. **Annals of Mathematics**, vol. 93 (1971), pp. 89–111.

See also: J. E. Baumgartner and R. Laver 1979.

LEE, V. and NADEL, M. E.

1977 *Remarks on generic models*. **Fundamenta Mathematicae**, vol. 95 (1977), pp. 73–84.

LEONARD, J.

See: H. Läuchli and J. Leonard 1966.

LETOURNEAU, J. J.

1968 *Decision problems related to the concept of operation*. Doctoral Dissertation, University of California, Berkeley, 1968, 119 pp.

LÉVY, A.

1965 *A Hierarchy of Formulas in Set Theory*. *Memoirs of the American Mathematical Society*, vol. 57, 1965, 76 pp.

1971 *The sizes of indescribable cardinals*. In: *Axiomatic Set Theory, Part I*, edited by D. S. Scott. *American Mathematical Society Proceedings of Symposia in Pure Mathematics*, vol. 13 (1971), pp. 205–218.

See also: J. D. Halpern and A. Lévy 1971.

LINDSTRÖM, P.

1966a *First order predicate logic with generalized quantifiers*. *Theoria*, vol. 32 (1966), pp. 186–195.

1966b *On characterizability in L_{ω_1, ω_0}* . *Theoria*, vol. 32 (1966), pp. 165–171.

1968 *Remarks on some theorems of Keisler*. *Journal of Symbolic Logic*, vol. 33 (1968), pp. 571–576.

1969 *On extensions of elementary logic*. *Theoria*, vol. 35 (1969), pp. 1–11.

1973a *A characterization of elementary logic*. In: *Modality, Morality and other Problems of Sense and Nonsense*, edited by B. Hansson. CWK Gleerup Bokförlag, 1973, pp. 189–191.

1973b *A note on weak second order logic with variables for elementarily definable relations*. In: *Proceedings of the Bertrand Russell Memorial Logic Conference*, edited by J. L. Bell, J. C. Cole, G. Priest and A. B. Slomson. University of Leeds, 1973, pp. 221–233.

1974 *On characterizing elementary logic*. In: *Logical Theory and Semantic Analysis*, edited by S. Stenlund. D. Reidel Publishing Company, 1974, pp. 129–146.

1978 *Omitting uncountable types and extensions of elementary logic*. *Theoria*, vol. 44 (1978), pp. 152–156.

1983 *A note on a modification of the Tarski union lemma and extensions of elementary logic*. *Filosofiska Meddelanden, röda serien, of the Institute for Philosophy of the Göteborg University*, vol. 23 (1983), pp. 162–166.

LINDSTRÖM, T. L.

1980a *Hyperfinite stochastic integration, I. The nonstandard theory*. *Mathematica Scandinavica*, vol. 46 (1980), pp. 265–292.

1980b *Hyperfinite stochastic integration, II: Comparison with the standard theory*. *Mathematica Scandinavica*, vol. 46 (1980), pp. 293–314.

- 1980c *Hyperfinite stochastic integration, III: Hyperfinite representations of standard martingales*. *Mathematica Scandinavica*, vol. 46 (1980), pp. 315–331.
- 1980d *Addendum to "Hyperfinite stochastic integration, III"*. *Mathematica Scandinavica*, vol. 46 (1980), pp. 332–333.
- LIPNER, L.
- 1970 *Some Aspects of Generalized Quantifiers*. Doctoral Dissertation, University of California, Berkeley, 1970, 97 pp.
- 1973 Q_α -theories of products. *Journal of Symbolic Logic*, vol. 38 (1973), p. 353. Abstract.
- LIPPARINI, P.
- 1982 *Some results about compact logics*. *Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII*, vol. 72 (1982), pp. 308–311.
- 198?a *Duality for compact logics and substitution in abstract model theory*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*. To appear.
- 198?b *Robinson equivalence relations through limit ultrapowers*. *Unione Matematica Italiana. Bollettino. B. Serie VI*. To appear.
- LIPSHITZ, L. M. and NADEL, M. E.
- 1978 *The additive structure of models of arithmetic*. *Proceedings of the American Mathematical Society*, vol. 68 (1978), pp. 331–336.
- LITMAN, A.
- 1976 *On the monadic theory of ω_1 without A.C.* *Israel Journal of Mathematics*, vol. 23 (1976), pp. 251–266.
- LOEB, P. A.
- 1975 *Conversion from non-standard to standard measure spaces and applications in probability theory*. *Transactions of the American Mathematical Society*, vol. 211 (1975), pp. 113–122.
- 1979a *An introduction to non-standard analysis and hyperfinite probability theory*. In: *Probabilistic Analysis and Related Topics, Volume 2*, edited by A. T. Bharucha-Reid. Academic Press, 1979, pp. 105–142.
- 1979b *Weak limits of measures and the standard part map*. *Proceedings of the American Mathematical Society*, vol. 77 (1979), pp. 128–135.
- 1984 *A functional approach to nonstandard measure theory*. In: *Conference in Modern Analysis and Probability*, edited by R. Beals, A. Beck, A. Bellow and A. Hajian. American Mathematical Society, 1984, pp. 251–261.
- 198? *Measure spaces in nonstandard models underlying standard stochastic processes*. *Proceedings of the International Congress of Mathematicians, Warsaw 1983*. To appear.

LÓPEZ-ESCOBAR, E. G. K.

- 1965a *Infinitely long formulas with countable quantifier degrees*. Doctoral Dissertation, University of California, Berkeley, 1965, 189 pp.
- 1965b *An interpolation theorem for denumerably long formulas*. *Fundamenta Mathematicae*, vol. 57 (1965), pp. 253–272.
- 1965c *Universal formulas in the infinitary language $L_{\alpha\beta}$* . *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 13 (1965), pp. 383–388.
- 1966a *On defining well-orderings*. *Fundamenta Mathematicae*, vol. 59 (1966), pp. 13–21–299–300.
- 1966b *An addition to "On defining well-orderings"*. *Fundamenta Mathematicae*, vol. 59 (1966), pp. 299–300.
- 1967a *A complete, infinitary axiomatization of weak second-order logic*. *Fundamenta Mathematicae*, vol. 61 (1967), pp. 93–103.
- 1967b *On a theorem of J. I. Malitz*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 15 (1967), pp. 739–743.
- 1967c *Remarks on an infinitary language with constructive formulas*. *Journal of Symbolic Logic*, vol. 32 (1967), pp. 305–318.
- 1968 *Well-orderings and finite quantifiers*. *Journal of the Mathematical Society of Japan*, vol. 20 (1968), pp. 477–489.
- 1969 *A non-interpolation theorem*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 17 (1969), pp. 109–112.
- 1972 *The infinitary language $L_{\theta\theta}$ is not local (with Russian summary)*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 20 (1972), pp. 527–528.
- 1976 *On an extremely restricted ω -rule*. *Fundamenta Mathematicae*, vol. 90 (1976), pp. 159–172.

ŁOŚ, J.

- 1954 *On the categoricity in power of elementary deductive systems and some related problems*. *Colloquium Mathematicum*, vol. 3 (1954), pp. 58–62.
- 1955a *On the extending of models, I*. *Fundamenta Mathematicae*, vol. 42 (1955), pp. 38–54.
- 1955b *Quelques remarques, théorèmes et problèmes sur les classes définissables d'algèbres*. In: *Mathematical Interpretation of Formal Systems*, edited by L. E. J. Brouwer, E. W. Beth and A. Heyting. North-Holland Publishing Company, 1955, pp. 98–113.
- 1963 *Remarks on the foundations of probability*. In: *Proceedings of the International Congress of Mathematicians. 1962*, edited by V. Stenström. Institute Mittag-Leffler, Djursholm, 1963, pp. 225–229.

LOŚ, J., SŁOMIŃSKI, J. and SUSZKO, R.

1959 *On extending of models, V: Embedding theorems for relational models.* **Fundamenta Mathematicae**, vol. 48 (1959), pp. 113–121.

LOŚ, J. and SUSZKO, R.

1955 *On the extending of models, II: Common extensions.* **Fundamenta Mathematicae**, vol. 42 (1955), pp. 343–347.

1957 *On the extending of models, IV: Infinite sums of models.* **Fundamenta Mathematicae**, vol. 44 (1957), pp. 52–60.

LÖWENHEIM, L.

1915 *Über Möglichkeiten im Relativkalkül.* **Mathematische Annalen**, vol. 76 (1915), pp. 447–470.

LYNCH, J. F.

1980 *Almost sure theories.* **Annals of Mathematical Logic**, vol. 18 (1980), pp. 91–135.

LYNDON, R. C.

1959a *An interpolation theorem in the predicate calculus.* **Pacific Journal of Mathematics**, vol. 9 (1959), pp. 129–142.

1959b *Properties preserved under homomorphism.* **Pacific Journal of Mathematics**, vol. 9 (1959), pp. 143–154.

MAC DOWELL, R. and SPECKER, E. P.

1961 *Modelle der Arithmetik.* In: **Infinitistic Methods: Proceedings of the Symposium on Foundations of Mathematics**, edited by Anonymous. Pergamon Press and Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1961, pp. 257–263.

MACINTYRE, A. J.

1976 *Existentially closed structures and Jensen's principle \diamond .* **Israel Journal of Mathematics**, vol. 25 (1976), pp. 202–210.

1978 *Generalized quantifiers in arithmetic. Preliminary report.* **Notices of the American Mathematical Society**, vol. 25 (1978), p. A-386. Abstract.

1980 *Ramsey quantifiers in arithmetic.* In: **Model Theory of Algebra and Arithmetic**, edited by L. Pacholski, J. Wierzejewski and A. Wilkie. **Springer-Verlag Lecture Notes in Mathematics**, vol. 834 (1980), pp. 186–210.

MACINTYRE, A. J. and SHELAH, S.

1976 *Uncountable universal locally finite groups.* **Journal of Algebra**, vol. 43 (1976), pp. 168–175.

MAC LANE, S.

1971 **Categories for the Working Mathematician.** Springer-Verlag, 1971, ix+262 pp.

MAEHARA, S.

- 1970 *A general theory of completeness proofs*. **Annals of the Japan Association for Philosophy of Science**, vol. 3 (1970), pp. 242–256.

MAEHARA, S. and TAKEUTI, G.

- 1961 *A formal system of first-order predicate calculus with infinitely long expressions*. **Journal of the Mathematical Society of Japan**, vol. 13 (1961), pp. 357–370.

MAGIDOR, M.

- 1971 *On the role of supercompact and extendible cardinals in logic*. **Israel Journal of Mathematics**, vol. 10 (1971), pp. 147–157.
- 1976 *How large is the first strongly compact cardinal? or: A study on identity crises*. **Annals of Mathematical Logic**, vol. 10 (1976), pp. 33–57.
- 198? *On the existence of descendingly complete ultrafilters*. Manuscript, Hebrew University, 198?. In preparation.
- See also: Y. Gurevich, M. Magidor and S. Shelah 1983; A. Kanamori and M. Magidor 1978.

MAGIDOR, M. and MALITZ, J. J.

- 1977a *Compact extensions of $L(Q)$ (Part 1a)*. **Annals of Mathematical Logic**, vol. 11 (1977), pp. 217–261.
- 1977b *Compactness and transfer for a fragment of L^2* . **Journal of Symbolic Logic**, vol. 42 (1977), pp. 261–268.

MAGIDOR, M. and SHELAH, S.

- 1983 *On λ -freeness*. **Abstracts of Papers Presented to the American Mathematical Society**, vol. 4 (1983), pp. 484–485. Abstract.

MAGIDOR, M., SHELAH, S. and STAVI, J.

- 1984 *Countably decomposable admissible sets*. **Annals of Pure and Applied Logic**, vol. 26 (1984), pp. 287–361.

MAHR, B. and MAKOWSKY, J. A.

- 1983a *An axiomatic approach to semantics of specification languages*. In: **Theoretical Computer Science**, edited by A. B. Cremers and H. P. Kriegel. **Springer-Verlag Lecture Notes in Computer Science**, vol. 145 (1983), pp. 211–219.
- 1983b *Characterizing specification languages which admit initial semantics*. In: **Proceedings of CAAP '83**, edited by G. Ausiello and M. Protasi. **Springer-Verlag Lecture Notes in Computer Science**, vol. 159 (1983), pp. 300–316.
- 1984 *Characterizing specification languages which admit initial semantics*. **Theoretical Computer Science**, vol. 31 (1984), pp. 49–59.

MAKKAI, M.

- 1964a *On PC_{Δ} -classes in the theory of models*. **A Magyar Tudományos Akadémia Matematikai Kutató Intézetének Közleményei (Budapest)**, vol. 9 (1964), pp. 159–194.
- 1964b *Remarks on my paper "On PC_{Δ} -classes in the theory of models"*. **A Magyar Tudományos Akadémia Matematikai Kutató Intézetének Közleményei (Budapest)**, vol. 9 (1964), pp. 601–602.
- 1968a *A generalization of the interpolation theorem*. **Notices of the American Mathematical Society**, vol. 15 (1968), pp. 804–805. Abstract.
- 1968b *Preservation theorems for infinitary logic*. **Notices of the American Mathematical Society**, vol. 15 (1968), p. 196. Abstract.
- 1969a *An application of a method of Smullyan to logics on admissible sets*. **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 17 (1969), pp. 341–346.
- 1969b *On the model theory of denumerably long formulas with finite strings of quantifiers*. **Journal of Symbolic Logic**, vol. 34 (1969), pp. 437–459.
- 1969c *Preservation theorems for pseudo-elementary classes*. **Notices of the American Mathematical Society**, vol. 16 (1969), p. 425. Abstract.
- 1969d *Regular relations and Svenonius formulas*. **Notices of the American Mathematical Society**, vol. 16 (1969), p. 981. Abstract.
- 1969e *Structures elementarily equivalent to models of higher power relative to infinitary languages*. **Notices of the American Mathematical Society**, vol. 16 (1969), p. 322. Abstract.
- 1970 *Structures elementarily equivalent relative to infinitary languages to models of higher power*. **Acta Mathematica Academiae Scientiarum Hungaricae**, vol. 21 (1970), pp. 283–295.
- 1972 *Svenonius sentences and Lindström's theory on preservation theorems*. **Fundamenta Mathematicae**, vol. 73 (1972), pp. 219–233.
- 1973a *Global definability theory in $L_{\omega_1\omega}$* . **Bulletin of the American Mathematical Society**, vol. 79 (1973), pp. 916–921.
- 1973b *Vaught sentences and Lindström's regular relations*. In: **Cambridge Summer School in Mathematical Logic**, edited by A. R. D. Mathias and H. Rogers. **Springer-Verlag Lecture Notes in Mathematics**, vol. 337 (1973), pp. 622–660.
- 1974a *A remark on a paper of J.P. Ressayre*. **Annals of Mathematical Logic**, vol. 7 (1974), pp. 157–162.
- 1974b *Generalizing Vaught sentences from ω to strong cofinality ω* . **Fundamenta Mathematicae**, vol. 82 (1974), pp. 105–119.
- 1974c *Errata to the paper: 'Generalizing Vaught sentences from ω to strong cofinality ω '*. **Fundamenta Mathematicae**, vol. 82 (1974), p. 385.
- 1977a *Admissible sets and infinitary logic*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 233–281.

1977b *An admissible generalization of a theorem on countable Σ_1^1 -sets of reals with applications.* **Annals of Mathematical Logic**, vol. 11 (1977), pp. 1–30.

1981 *An example concerning Scott heights.* **Journal of Symbolic Logic**, vol. 46 (1981), pp. 301–318.

See also: K. J. Barwise and M. Makkai 1976; K. J. Barwise, M. J. Kaufmann and M. Makkai 1978; K. J. Barwise, M. J. Kaufmann and M. Makkai 1981; V. Harnik and M. Makkai 1976; V. Harnik and M. Makkai 1977; V. Harnik and M. Makkai 1979; L. A. Harrington, M. Makkai and S. Shelah 198?.

MAKKAI, M. and MYCIELSKI, J.

1977 *An $L_{\omega_1\omega}$ complete and consistent theory without models.* **Proceedings of the American Mathematical Society**, vol. 62 (1977), pp. 131–133.

MAKKAI, M. and REYES, G. E.

1976a *Model-theoretical methods in the theory of topoi and related categories, I (with Russian summary).* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 24 (1976), pp. 379–384.

1976b *Model-theoretical methods in the theory of topoi and related categories, II (with Russian summary).* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 24 (1976), pp. 385–392.

MAKOWSKY, J. A.

1973 *Langages engendrés à partir des formules de Scott.* **Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A**, vol. 276 (1973), pp. 1585–1587.

1975a *Beth's theorem in Δ -logics.* **Notices of the American Mathematical Society**, vol. 22 (1975), p. A-33. Abstract.

1975b *Securable quantifiers, κ -unions and admissible sets.* In: **Logic Colloquium '73**, edited by H. E. Rose and J. C. Shepherdson. North-Holland Publishing Company, 1975, pp. 409–428.

1975c *Topological model theory.* In: **Model Theory and Applications**, edited by P. Mangani. Edizioni Cremonese, Rome, 1975, pp. 122–150.

1977a *A note on stationary logic. Preliminary report.* **Notices of the American Mathematical Society**, vol. 24 (1977), p. A-438. Abstract.

1977b *Elementary equivalence and definability in stationary logic.* Technical Report, Freie Universität Berlin, 1977, 21 pp.

1978a *Quantifying over countable sets: Positive vs. stationary logic.* In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 183–193.

- 1978b *Some observations on uniform reduction for properties invariant on the range of definable relations.* **Fundamenta Mathematicae**, vol. 99 (1978), pp. 199–203.
- 1978c *Characterizing monadic and equivalence quantifiers.* Manuscript, Mathematisches Institut II, Freie Universität Berlin, 1978, 15 pp.
- 1980 *Measuring the expressive power of dynamic logics: An application of abstract model theory.* In: **Automata, Languages and Programming**, edited by J. W. de Bakker and J. van Leeuwen. **Springer-Verlag Lecture Notes in Computer Science**, vol. 85 (1980), pp. 409–421.
- 1981 *Errata: Measuring the expressive power of dynamic logics: An application of abstract model theory.* In: **Automata, Languages and Programming**, edited by S. Even and O. Kariv. **Springer-Verlag Lecture Notes in Computer Science**, vol. 115 (1981), p. 551.
- 1984 *Model theoretic issues in theoretical computer science, part I: Relational data bases and abstract data types.* In: **Logic Colloquium '82**, edited by G. Lolli, G. Longo and A. Marcja. North-Holland Publishing Company, 1984, pp. 303–343.
- 1985 *Some remarks on Vopěnka's principle.* **Journal of Symbolic Logic**, vol. 50 (1985), pp. 10–16.
- See also:** B. Mahr and J. A. Makowsky 1983a; B. Mahr and J. A. Makowsky 1983b; B. Mahr and J. A. Makowsky 1984.

MAKOWSKY, J. A. and MARCJA, A.

- 1977 *Problemi di decidibilità in logica topologica.* **Rendiconti del Seminario Matematico dell'Università di Padova**, vol. 56 (1977), pp. 67–68.

MAKOWSKY, J. A. and SHELAH, S.

- 1976 *The Theorems of Beth and Craig in Abstract Model Theory.* Preprint No. 13, Forschungsschwerpunkt Modelltheorie, II. Math. Institut, Freie Universität, Berlin, West Berlin 1976, 66 pp.
- 1979a *Amalgamation is essentially equivalent to compactness.* **Notices of the American Mathematical Society**, vol. 26 (1979), p. A-526. Abstract.
- 1979b *The theorems of Beth and Craig in abstract model theory, I: The abstract setting.* **Transactions of the American Mathematical Society**, vol. 256 (1979), pp. 215–239.
- 1981 *The theorems of Beth and Craig in abstract model theory, II: Compact logics.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 21 (1981), pp. 13–35.
- 1983 *Positive results in abstract model theory: A theory of compact logics.* **Annals of Pure and Applied Logic**, vol. 25 (1983), pp. 263–299.
- 1987a *Some model theory of positive logic.* Manuscript, Technion-Israel Institute of Technology and Hebrew University. In preparation.

- 1987b *The theorems of Beth and Craig in abstract model theory, III: Infinitary and Δ -logic*. Manuscript, Technion-Israel Institute of Technology and Hebrew University. In preparation.
- MAKOWSKY, J. A., SHELAH, S., and STAVI, J.
- 1976 *Δ -logics and generalized quantifiers*. **Annals of Mathematical Logic**, vol. 10 (1976), pp. 155–192.
- MAKOWSKY, J. A. and TULIPANI, S.
- 1977 *Some model theory for monotone quantifiers*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 18 (1977), pp. 115–134.
- MAKOWSKY, J. A. and ZIEGLER, M.
- 1981 *Topological model theory with an interior operator*. **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 21 (1981), pp. 37–54.
- MAL'CEV, A. I.
- 1971 *Quasiprimitive classes of abstract algebras*. In: **The Metamathematics of Algebraic Systems**, edited by B. F. Wells III. North-Holland Publishing Company, 1971, pp. 27–31.
- 1973 **Algebraic Systems**. Springer-Verlag, 1973, ii+317 pp.
- MALITZ, J. J.
- 1966 *Problems in the model theory of infinite languages*. Doctoral Dissertation, University of California, Berkeley, 1966, iii+83 pp.
- 1968 *The Hanf number for complete $L_{\omega_1, \omega}$ sentences*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 166–181.
- 1969 *Universal classes in infinitary languages*. **Duke Mathematical Journal**, vol. 36 (1969), pp. 621–630.
- 1971 *Infinitary analogs of theorems from first-order model theory*. **Journal of Symbolic Logic**, vol. 36 (1971), pp. 216–228.
- See also: J. E. Baumgartner, J. J. Malitz and W. N. Reinhardt 1970; M. Magidor and J. J. Malitz 1977a; M. Magidor and J. J. Malitz 1977b.
- MALITZ, J. J. and REINHARDT, W. N.
- 1972a *A complete countable $L_{\omega_1}^Q$ -theory with maximal models of many cardinalities*. **Pacific Journal of Mathematics**, vol. 43 (1972), pp. 691–700.
- 1972b *Maximal models in the language with quantifier “there exist uncountably many”*. **Pacific Journal of Mathematics**, vol. 40 (1972), pp. 139–155.

MALITZ, J. J. and RUBIN, M.

1978 *Extensions of $L^{<\omega}$* . **Notices of the American Mathematical Society**, vol. 25 (1978), p. A-442. Abstract.

1980 *Compact fragments of higher-order logic*. In: **Mathematical Logic in Latin America**, edited by A. I. Arruda, R. Chuaqui and N. C. A. DaCosta. North-Holland Publishing Company, 1980, pp. 219-238.

MANDERS, K. L.

1980 *First-order logical systems and set-theoretical definability*. Manuscript, University of Pittsburgh, 1980, 35 pp.

MANDERS, K. L. and DALEY, R. F.

1982 *The complexity of the validity problem for dynamic logic*. **Information and Control**, vol. 54 (1982), pp. 48-69.

MANGANI, P.

198? *Calcoli generalizzati con "tipi" e logiche generalizzate*. **Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII**. To appear.

MANIN, JU. I.

1977 **A Course in Mathematical Logic**. Springer-Verlag, 1977, xii+286 pp.

MANNILA, H.

1982 *Restricted compactness notions in abstract logic and topology*. Technical Report, University of Helsinki, 1982, 31 pp.

1983 *A topological characterization of $(\lambda, \mu)^*$ -compactness*. **Annals of Pure and Applied Logic**, vol. 25 (1983), pp. 301-305.

MANSFIELD, R.

1972 *The completeness theorem for infinitary logic*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 31-34.

1975 *Omitting types: Application to descriptive set theory*. **Proceedings of the American Mathematical Society**, vol. 47 (1975), pp. 198-200.

MANSOUX, A.

1976 *Logique sans égalité et (k,p) -quasivalence (with English summary)*. **Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A**, vol. 283 (1976), pp. 137-140.

MARCJA, A.

See: J. A. Makowsky and A. Marcja 1977.

MARCJA, A. and TULIPANI, S.

1974 *Questioni di teoria dei modelli per linguaggi universali positivi, I (with English summary)*. **Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII**, vol. 56 (1974), pp. 915-923.

MAREK, W.

See: K. R. Apt and W. Marek 1974; A. Krawczyk and W. Marek 1977.

MAREK, W. and MOSTOWSKI, A.

1975 *On extendability of models of ZF set theory to the models of Kelley-Morse theory of classes*. In: **ISILC Logic Conference**, edited by G. H. Müller, A. Oberschelp and K. Potthoff. **Springer-Verlag Lecture Notes in Mathematics**, vol. 499 (1975), pp. 203–220.

MARTIN, D. A.

1975 *Borel determinacy*. **Annals of Mathematics**, vol. 102 (1975), pp. 363–371.

MARTIN, D. A., MOSCHOVAKIS, Y. N. and STEEL, J.

1982 *The extent of definable scales*. **Bulletin of the American Mathematical Society**, vol. 6 (1982), pp. 435–440.

MARTIN-LÖF, P.

1972 *Infinite terms and a system of natural deduction*. **Compositio Mathematica**, vol. 24 (1972), pp. 93–103.

MATHIAS, A. R. D.

1979 *Surrealist landscape with figures (a survey of recent results in set theory)*. **Periodica Mathematica Hungarica**, vol. 10 (1979), pp. 109–175.

See also: R. D. Kopperman and A. R. D. Mathias 1968.

MAY, W. and TOUBASSI, E.

1977 *Embedding of totally projective groups*. **Archiv der Mathematik (Basel)**, vol. 29 (1977), pp. 465–471.

MCALOON, K.

See: J. L. Krivine and K. McAloon 1973.

MCKEE, T. A.

1974 *Some applications of model theory to topology*. **Doctoral Dissertation**, University of Wisconsin, Madison, 1974, 38 pp.

1975 *Infinitary logic and topological homeomorphisms*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 21 (1975), pp. 405–408.

1976 *Sentences preserved between equivalent topological bases*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 22 (1976), pp. 79–84.

1980 *Monadic characterization in nonstandard topology*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 26 (1980), pp. 395–397.

MCKENZIE, R.

- 1970 *On elementary types of symmetric groups*. *Algebra Universalis*, vol. 1 (1970), pp. 13–20.

See also: S. N. Burris and R. McKenzie 1981.

MCNAUGHTON, R.

- 1966 *Testing and generating infinite sequences by a finite automaton*. *Information and Control*, vol. 9 (1966), pp. 521–530.

MEKLER, A. H.

- 1980a *How to construct almost free groups*. *Canadian Journal of Mathematics*, vol. 32 (1980), pp. 1206–1228.

- 1980b *On residual properties*. *Proceedings of the American Mathematical Society*, vol. 78 (1980), pp. 187–188.

- 1984 *Stationary logic of ordinals*. *Annals of Pure and Applied Logic*, vol. 26 (1984), pp. 47–68.

See also: P. C. Eklof and A. H. Mekler 1979; P. C. Eklof and A. H. Mekler 1981; P. C. Eklof and A. H. Mekler 1982.

MEKLER, A. H. and SHELAH, S.

- 1983 *Stationary logic and its friends, II*. Manuscript, Simon Frazer University and the Hebrew University, 1983, 23 pp.

- 198? *Stationary logic and its friends, I*. *Israel Journal of Mathematics*. To appear.

MENAS, T. K.

- 1974 *On strong compactness and supercompactness*. *Annals of Mathematical Logic*, vol. 7 (1974), pp. 327–359.

- 1976 *Consistency results concerning supercompactness*. *Transactions of the American Mathematical Society*, vol. 223 (1976), pp. 61–91.

MÉTIVIER, M. and PELLAUMAIL, J.

- 1980 *Stochastic Integration*. Academic Press, 1980, xii+196 pp.

MEYER, A. R.

- 1975 *The inherent complexity of theories of ordered sets*. In: *Proceedings of the International Congress of Mathematicians. Volume Two*, edited by R. D. James. Canadian Mathematical Congress, 1975, pp. 477–482.

MEYER, P. A.

See: C. Dellacherie and P. A. Meyer 1981.

MIETTINEN, S.

- 1977 *Some remarks on definability*. In: *Proceedings of the Symposiums on Mathematical Logic in Oulu '74 and Helsinki '75*, edited by S. Miettinen and J. Väänänen. *Reports from the Department of Philosophy, University of Helsinki*, vol. 2 (1977), pp. 69–70.

MILLER, D. E.

1978 *The invariant Π_α^0 separation principle*. **Transactions of the American Mathematical Society**, vol. 242 (1978), pp. 185–204.

1979 *On classes closed under unions of chains*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 29–31.

See also: J. T. Baldwin and D. E. Miller 1982; J. P. Burgess and D. E. Miller 1975.

MILLS, G.

See: J. B. Paris and G. Mills 1979.

MINC, G. E.

See: S. G. Simpson, G. Kreisel and G. E. Minc 1975.

MITCHELL, B.

1965 **Theory of Categories**. Academic Press, 1965, xi+273 pp.

MITCHELL, W. J.

1972 *Aronszajn trees and the independence of the transfer property*. **Annals of Mathematical Logic**, vol. 5 (1972), pp. 21–46.

MOLZAN, B.

1981a *On the number of different theories of Boolean algebras in several logics*. In: **Workshop on Extended Model Theory**, edited by H. Herre. Akademie der Wissenschaften der DDR, Institut für Mathematik, 1981, pp. 102–112.

1981b *Die Theorie der Booleschen Algebren in der Logik mit Ramsey-Quantor*. Doctoral Dissertation, Humboldt-Universität zu Berlin, 1981, vii+122 pp.

1982 *The theory of superatomic Boolean algebras in the logic with the binary Ramsey quantifier*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 28 (1982), pp. 365–376.

MONK, J. D.

1965 *Model-theoretic methods and results in the theory of cylindric algebras*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 238–250.

1976 **Mathematical Logic**. Springer-Verlag, 1976, x+531 pp.

MONK, L. G.

1975 *Elementary-recursive decision procedures*. Doctoral Dissertation, University of California, Berkeley, 1975, 89 pp.

MONTAGUE, R.

1965 *Reductions of higher-order logic*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 251–264.

MONTAGUE, R. and VAUGHT, R. L.

- 1959 *Natural models of set theory*. *Fundamenta Mathematicae*, vol. 47 (1959), pp. 219–242.

MOREL, A. C.

See: T. E. Frayne, A. C. Morel and D. S. Scott 1962.

MORGENSTERN, C. F.

- 1977 *Compact extensions of $L^{<\omega}$ and topics in set theory*. Doctoral Dissertation, University of Colorado, Boulder, 1977, 67 pp.
- 1979a *On amalgamations of languages with Magidor-Malitz quantifiers*. *Journal of Symbolic Logic*, vol. 44 (1979), pp. 549–558.
- 1979b *The measure quantifier*. *Journal of Symbolic Logic*, vol. 44 (1979), pp. 103–108.
- 1982 *On generalized quantifiers in arithmetic*. *Journal of Symbolic Logic*, vol. 47 (1982), pp. 187–190.

MORLEY, M. D.

- 1965a *Categoricity in power*. *Transactions of the American Mathematical Society*, vol. 114 (1965), pp. 514–538.
- 1965b *Omitting classes of elements*. In: *The Theory of Models*, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 265–273.
- 1967 *The Hanf number for ω -logic*. *Journal of Symbolic Logic*, vol. 32 (1967), pp. 437–438. Abstract.
- 1968 *Partitions and models*. In: *Proceedings of the Summer School in Logic, Leeds, 1967*, edited by M.H. Löb. Springer-Verlag Lecture Notes in Mathematics, vol. 70 (1968), pp. 109–158.
- 1970 *The number of countable models*. *Journal of Symbolic Logic*, vol. 35 (1970), pp. 14–18.
- 1974 *Applications of topology to $L_{\omega_1\omega}$* . In: *Proceedings of the Tarski Symposium*, edited by L. A. Henkin. American Mathematical Society Proceedings of Symposia in Pure Mathematics, vol. 25 (1974), pp. 233–240.
- See also: H. J. Keisler and M. D. Morley 1967; H. J. Keisler and M. D. Morley 1968.

MORLEY, M. D. and MORLEY, V.

- 1967 *The Hanf number for κ -logic*. *Notices of the American Mathematical Society*, vol. 14 (1967), p. 556. Abstract.

MORLEY, M. D. and VAUGHT, R. L.

- 1962 *Homogeneous and universal models*. *Mathematica Scandinavica*, vol. 11 (1962), pp. 37–57.

MORLEY, V.

See: M. D. Morley and V. Morley 1967.

MOSCHOVAKIS, Y. N.

1969 *Abstract first-order computability, I and II*. **Transactions of the American Mathematical Society**, vol. 138 (1969), pp. 427–504.

1972 *The game quantifier*. **Proceedings of the American Mathematical Society**, vol. 31 (1972), pp. 245–250.

1974a **Elementary Induction on Abstract Structures**. North-Holland Publishing Company, 1974, x+218 pp.

1974b *On nonmonotone inductive definability*. **Fundamenta Mathematicae**, vol. 82 (1974), pp. 39–83.

1980 **Descriptive Set Theory**. North-Holland Publishing Company, 1980, xii+637 pp.

See also: K. J. Barwise and Y. N. Moschovakis 1978; K. J. Barwise, R. O. Gandy and Y. N. Moschovakis 1971; C. C. Chang and Y. N. Moschovakis 1968; C. C. Chang and Y. N. Moschovakis 1970; L. A. Harrington and Y. N. Moschovakis 1974; A. S. Kechris and Y. N. Moschovakis 1977; D. A. Martin, Y. N. Moschovakis and J. Steel 1982.

MOSTOWSKI, A.

1947 *On absolute properties of relations*. **Journal of Symbolic Logic**, vol. 12 (1947), pp. 33–42.

1957 *On a generalization of quantifiers*. **Fundamenta Mathematicae**, vol. 44 (1957), pp. 12–36.

1961 *Concerning the problem of axiomatizability of the field of real numbers in the weak second-order logic*. In: **Essays on the Foundations of Mathematics**, edited by Y. Bar-Hillel, E. I. J. Poznanski, M. O. Rabin and A. Robinson. The Magnes Press, The Hebrew University, Jerusalem, 1961, pp. 269–286.

1966 **Thirty Years of Foundational Studies. Lectures on the Development of Mathematical Logic and the Study of the Foundations of Mathematics in 1930-1964**. Barnes and Noble, Inc., 1966, 180 pp.

1968 *Craig's interpolation theorem in some extended systems of logic*. In: **Logic, Methodology and Philosophy of Science III**, edited by B. van Rootselaar and J. F. Staal. North-Holland Publishing Company, 1968, pp. 87–103.

See also: J. E. Doner, A. Mostowski and A. Tarski 1978; A. Ehrenfeucht and A. Mostowski 1956; A. Grzegorzcyk, A. Mostowski and C. Ryll-Nardzewski 1961; K. Kuratowski and A. Mostowski 1968; K. Kuratowski and A. Mostowski 1976; W. Marek and A. Mostowski 1975; A. Tarski, A. Mostowski and R. M. Robinson 1953.

MOSTOWSKI, A. and TARSKI, A.

- 1949 *Arithmetical classes and types of well-ordered systems. Preliminary report.* **Bulletin of the American Mathematical Society**, vol. 55 (1949), p. 65. Abstract.

MOTOHASHI, N.

- 1972a *A new theorem on definability in a positive second order logic with countable conjunctions and disjunctions.* **Proceedings of the Japan Academy**, vol. 48 (1972), pp. 153–156.
- 1972b *Countable structures for uncountable infinitary languages.* **Proceedings of the Japan Academy**, vol. 48 (1972), pp. 716–718.
- 1972c *Interpolation theorem and characterization theorem.* **Annals of the Japan Association for Philosophy of Science**, vol. 4 (1972), pp. 85–150.
- 1973 *Model theory on a positive second order logic with countable conjunctions and disjunctions.* **Journal of the Mathematical Society of Japan**, vol. 25 (1973), pp. 27–42.
- 1977 *A remark on Scott's interpolation theorem for $L_{\omega_1, \omega}$.* **Journal of Symbolic Logic**, vol. 42 (1977), p. 63.

MULLER, D. E.

- 1963 *Infinite sequences and finite machines.* In: **Switching Circuit Theory and Logical Design.** Institute of Electrical and Electronic Engineers, New York, 1963, pp. 3–16.

MUNDICI, D.

- 1979a *Compattezza = JEP in ogni logica.* **Notiziario della Unione Matematica Italiana**, vol. 8-9 (1979), p. 19.
- 1979b *Robinson consistency theorem in soft model theory.* **Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII**, vol. 67 (1979), pp. 383–386.
- 1979c *Compactness + Craig interpolation = Robinson consistency in any logic.* Manuscript, Mathematical Institute, University of Florence, 1979, 8 pp.
- 1980 *Natural limitations of algorithmic procedures in logic.* **Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII**, vol. 69 (1980), pp. 101–105.
- 1981a *An algebraic result about soft model-theoretical equivalence relations with an application to H. Friedman's fourth problem.* **Journal of Symbolic Logic**, vol. 46 (1981), pp. 523–530.
- 1981b *A group-theoretical invariant for elementary equivalence and its role in representations of elementary classes.* **Studia Logica**, vol. 40 (1981), pp. 253–267.

- 1981c *Applications of many-sorted Robinson consistency theorem.* *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 181–188.
- 1981d *Robinson's consistency theorem in soft model theory.* *Transactions of the American Mathematical Society*, vol. 263 (1981), pp. 231–241.
- 1981e *Craig's interpolation theorem in computation theory.* *Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII*, vol. 70 (1981), pp. 6–11.
- 1982a *Duality between logics and equivalence relations.* *Transactions of the American Mathematical Society*, vol. 270 (1982), pp. 111–129.
- 1982b *Interpolation, compactness and JEP in soft model theory.* *Archiv für Mathematische Logik und Grundlagenforschung*, vol. 22 (1982), pp. 61–67.
- 1982c *Lectures on abstract model theory, I, II, and III.* Technical Report, Mathematical Institute, University of Florence, 1982, 170 pp.
- 1982d *L-embedding, amalgamation and L-elementary equivalence.* *Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII*, vol. 72 (1982), pp. 312–314.
- 1982e *Variations on Friedman's third and fourth problems.* In: *Proceedings of the International Conference "Open Days in Model Theory and Set Theory"*, edited by W. Guzicki, W. Marek, A. Pelc and C. Rauszer. British Logic Colloquium (University of Leeds, 1981), pp. 205–220.
- 1982f *Compactness, interpolation and Friedman's third problem.* *Annals of Mathematical Logic*, vol. 22 (1982), pp. 197–211.
- 1983a *Compactness = JEP in any logic.* *Fundamenta Mathematicae*, vol. 116 (1983), pp. 99–108.
- 1983b *Inverse topological systems and compactness in abstract model theory.* In: *Proceedings of the First Easter Conference on Model Theory.* Seminarberichte, Humboldt-Universität, Berlin, vol. 49 (1983), pp. 73–98.
- 1984 *NP and Craig's interpolation theorem.* In: *Logic Colloquium '82*, edited by G. Lolli, G. Longo and A. Marcja. North-Holland Publishing Company, 1984, pp. 345–358.
- 198?a *Embeddings, amalgamation and elementary equivalence: the representation of compact logics.* *Fundamenta Mathematicae*. To appear.
- 198?b *A generalization of abstract model theory.* *Fundamenta Mathematicae*. To appear.
- 198?c *Abstract model theory and nets of C^* -algebras: Noncommutative interpolation and preservation properties.* In: *Logic Colloquium '83*, edited by G. H. Müller and M. M. Richter. Springer-Verlag Lecture Notes in Mathematics. To appear.

MURAWSKI, R.

- 1976a *On expandability of models of Peano arithmetic, I.* **Studia Logica**, vol. 35 (1976), pp. 403–413.
- 1976b *On expandability of models of Peano arithmetic, II.* **Studia Logica**, vol. 35 (1976), pp. 421–431.
- 1977 *On expandability of models of Peano arithmetic, III.* **Studia Logica**, vol. 36 (1977), pp. 181–188.

MURTHY, M. P. and SWAN, R. G.

- 1976 *Vector bundles over affine surfaces.* **Inventiones Mathematicae (Berlin)**, vol. 36 (1976), pp. 125–165.

MYCIELSKI, J.

See: M. Makkai and J. Mycielski 1977.

MYHILL, J. and KINO, A.

- 1975 *A hierarchy of languages with infinitely long expressions.* In: **Logic Colloquium '73**, edited by H. E. Rose and J. C. Shepherdson. North-Holland Publishing Company, 1975, pp. 55–71.

NADEL, M. E.

- 1972 *Some Löwenheim-Skolem results for admissible sets.* **Israel Journal of Mathematics**, vol. 12 (1972), pp. 427–432.
- 1974a *More Löwenheim-Skolem results for admissible sets.* **Israel Journal of Mathematics**, vol. 18 (1974), pp. 53–64.
- 1974b *Scott sentences and admissible sets.* **Annals of Mathematical Logic**, vol. 7 (1974), pp. 267–294.
- 1976 *On models $\equiv_{\infty\omega}$ to an uncountable model.* **Proceedings of the American Mathematical Society**, vol. 54 (1976), pp. 307–310.
- 1980a *An arbitrary equivalence relation as elementary equivalence in an abstract logic.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 26 (1980), pp. 103–109.
- 1980b *On a problem of MacDowell and Specker.* **Journal of Symbolic Logic**, vol. 45 (1980), pp. 612–622.

See also: V. Lee and M. E. Nadel 1977; L. M. Lipshitz and M. E. Nadel 1978.

NADEL, M. E. and STAVI, J.

- 1977 *The pure part of $HYP(M)$.* **Journal of Symbolic Logic**, vol. 42 (1977), pp. 33–46.
- 1978 *$L_{\infty\lambda}$ -equivalence, isomorphism and potential isomorphism.* **Transactions of the American Mathematical Society**, vol. 236 (1978), pp. 51–74.

NEBRES, B. F.

- 1969a $L_{\omega_1, \omega}$ sentences preserved under unions of models. Manuscript, Stanford University, 1969, 11 pp.
- 1969b *A syntactic characterization of infinitary sentences preserved under unions of models*. **Notices of the American Mathematical Society**, vol. 16 (1969), pp. 423–424. Abstract.
- 1970 *Preservation theorems and Herbrand theorems for infinitary languages*. Doctoral Dissertation, Stanford University, 1970, 69 pp.
- 1972a *Herbrand uniformity theorems for infinitary languages*. **Journal of the Mathematical Society of Japan**, vol. 24 (1972), pp. 1–19.
- 1972b *Infinitary formulas preserved under unions of models*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 449–465.

NEGREPONTIS, S.

See: W. W. Comfort and S. Negrepontis 1974.

NÉMETI, I.

- 1978 *From hereditary classes to varieties in abstract model theory and partial algebra*. **Beiträge zur Algebra und Geometrie**, vol. 7 (1978), pp. 69–78.
- 1983 *Beth definability property of a logic is equivalent with surjectiveness of epis in algebraic abstract model theory*. Manuscript, Mathematical Institute, Hungarian Academy of Science, 1983, 35 pp.
- See also: H. Andr eka and I. N emeti 1978; H. Andr eka and I. N emeti 1979; H. Andr eka and I. N emeti 1982; H. Andr eka and I. N emeti 1984; H. Andr eka, T. Gergely and I. N emeti 1977; H. Andr eka, I. N emeti and I. Sain 1984.

NYBERG, A. M.

- 1974 *Applications of model theory to recursion theory on structures of strong cofinality ω* . Manuscript, University of Oslo, 1974.
- 1976 *Uniform inductive definability and infinitary languages*. **Journal of Symbolic Logic**, vol. 41 (1976), pp. 109–120.
- 1977 *Inductive operators on resolvable structures*. In: **Proceedings of the Symposiums on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. V aan anen. **Reports from the Department of Philosophy, University of Helsinki**, vol. 2 (1977), pp. 91–100.

OHKUMA, T.

- 1956 *Sur quelques ensembles ordonn es lin airement*. **Fundamenta Mathematicae**, vol. 43 (1956), pp. 326–337.

OIKKONEN, J.

- 1976 *A hierarchy for model-theoretic definability*. Technical Report, Reports of the Department of Mathematics, University of Helsinki, 1976, 28 pp.

- 1978 *Second-order definability, game quantifiers and related expressions*. **Societas Scientiarum Fennica. Commentationes Physico-Mathematicae**, vol. 48 (1978), pp. 39–101.
- 1979a *Some remarks about abstract Löwenheim-Skolem properties*. **Journal of Symbolic Logic**, vol. 44 (1979), p. 455. Abstract.
- 1979b *A generalization of the infinitely deep languages of Hintikka and Rantala*. In: **Essays in Honour of Jaakko Hintikka**, edited by R. Hilpinen, I. Niiniluoto, M. B. Provençe Hintikka and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 101–112.
- 1979c *On PC- and RPC-classes in generalized model theory*. In: **Proceedings from 5th Scandinavian Logic Symposium**, edited by F. V. Jensen, B. H. Mayoh and K. K. Møller. Aalborg University Press, 1979, pp. 257–270.
- 1979d *Hierarchies of model-theoretic definability—an approach to second-order logics*. In: **Essays on Mathematical and Philosophical Logic**, edited by K. J. J. Hintikka, I. Niiniluoto, and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 197–225.
- ONYSZKIEWICZ, J.
- 1977 *Omitting types theorem in some extended systems of logic*. In: **Proceedings of the Symposia on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. Väänänen. **Reports from the Department of Philosophy, University of Helsinki**, vol. 2 (1977), pp. 51–61.
- OREY, S.
- 1956 *On ω -consistency and related properties*. **Journal of Symbolic Logic**, vol. 21 (1956), pp. 246–252.
- 1959 *Model theory for the higher order predicate calculus*. **Transactions of the American Mathematical Society**, vol. 92 (1959), pp. 72–84.
- OXTOBY, J. C.
- 1971 **Measure and Category: A survey of the analogies between topological and measure spaces**. Springer-Verlag, 1971, viii+95 pp.
- PABION, J. F.
- 1969 *Extensions du théorème de Löwenheim-Skolem en logique infinitaire*. **Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A**, vol. 268 (1969), pp. 925–927.
- PALJUTIN, E. A.
- 1971 *Boolean algebras with a category theory in a weak second-order logic*. **Algebra and Logic**, vol. 10 (1971), pp. 325–331.
- 1977a *Number of models in L_{∞, ω_1} -theories*. **Algebra and Logic**, vol. 16 (1977), pp. 51–61.

- 1977b *Number of models in L_{∞, ω_1} -theories, II*. **Algebra and Logic**, vol. 16 (1977), pp. 299-309.
- PARIS, J. B.
- 1972 *Solution to a problem of M. Dickmann*. Manuscript, Manchester University, 1972, 26 pp.
- PARIS, J. B. and MILLS, G.
- 1979 *Closure properties of countable non-standard integers*. **Fundamenta Mathematicae**, vol. 103 (1979), pp. 205-215.
- PAŠENKOV, V. V.
- 1974 *Duality of topological models*. **Soviet Mathematics, Doklady**, vol. 15 (1974), pp. 1336-1340.
- PAULOS, J. A.
- 1974 *Truth-maximality and Δ -closed logics*. Doctoral Dissertation, University of Wisconsin, Madison, 1974, 42 pp.
- 1976 *Noncharacterizability of the syntax set*. **Journal of Symbolic Logic**, vol. 41 (1976), pp. 368-372.
- PELLAUMAIL, J.
- See: M. Métivier and J. Pellaumail 1980.
- PERKINS, E.
- See: D. N. Hoover and E. Perkins 1983a; D. N. Hoover and E. Perkins 1983b.
- PETRESCU, I.
- 1974 *A theorem of Löwenheim-Skolem type for topologic models (Romanian, with English summary)*. **Studii și Cercetări Matematice**, vol. 26 (1974), pp. 1237-1240.
- PINTER, C.
- 1975 *Algebraic logic with generalized quantifiers*. **Notre Dame Journal of Formal Logic**, vol. 16 (1975), pp. 511-516.
- See also: N. C. A. DaCosta and C. Pinter 1976.
- PINUS, A. G.
- 1972 *On the theory of convex subsets*. **Siberian Mathematical Journal**, vol. 13 (1972), pp. 157-161.
- 1976 *Theories of Boolean algebras in a calculus with the quantifier "infinitely many exist"*. **Siberian Mathematical Journal**, vol. 17 (1976), pp. 1035-1038.
- 1978 *Cardinality of models for theories in a calculus with a Häftig quantifier*. **Siberian Mathematical Journal**, vol. 19 (1978), pp. 949-955.

- 1979a *Elimination of the quantifiers Q_0 and Q_1 on symmetric groups*. **Soviet Mathematics (Izvestiya Vysših Učebnyh Zavedenii. Matematika)**, vol. 23, no. 12 (1979), pp. 47–49.
- 1979b *Hanf number for the calculus with the Häftig quantifier*. **Siberian Mathematical Journal**, vol. 20 (1979), pp. 315–316.
 See also: H. Herre and A. G. Pinus 1978; A. I. Kokorin and A. G. Pinus 1978.
- PLATEK, R.
- 1966 *Foundations of recursion theory*. Doctoral Dissertation, Stanford University, 1966, 215 pp.
- POIZAT, B.
- See: D. Lascar and B. Poizat 1979.
- POPE, A. L.
- 1982 *Some applications of set theory to algebra*. Doctoral Dissertation, Bedford College, London, 1982, 154 pp.
- PRELLER, A.
- 1968 *Quantified algebras*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. **Springer-Verlag Lecture Notes in Mathematics**, vol. 72 (1968), pp. 182–203.
- PRESTEL, A. and ZIEGLER, M.
- 1978 *Model-theoretic methods in the theory of topological fields*. **Journal für die Reine und Angewandte Mathematik**, vol. 299/300 (1978), pp. 318–341.
- PRIKRY, K. L.
- 1968 *Changing measurable into accessible cardinals*. Doctoral Dissertation, University of California, Berkeley, 1968, 90 pp.
- 1970 *On a problem of Gillman and Keisler*. **Annals of Mathematical Logic**, vol. 2 (1970), pp. 179–187.
- 1973 *On descendingly complete ultrafilters*. In: **Cambridge Summer School in Mathematical Logic**, edited by A. R. D. Mathias and H. Rogers. **Springer-Verlag Lecture Notes in Mathematics**, vol. 337 (1973), pp. 459–488.
 See also: K. Kunen and K. L. Prikry 1971.
- PUDLÁK, P.
- 1977 *Generalized quantifiers and semisets*. In: **Set Theory and Hierarchy Theory**, edited by Y. Bar-Hillel. **Prace Naukowe Instytutu Matematyki Politechniki Wrocławskiej**, Wrocław, vol. 14 (1977), pp. 109–116.

QUINE, W. V. O.

1953 **From a Logical Point of View.** Harper and Row, 1953, vi+184 pp.

RABIN, M. O.

1959 *Arithmetical extensions with prescribed cardinality.* **Indagationes Mathematicae**, vol. 21 (1959), pp. 439–446.

1965 *A simple method for undecidability proofs and some applications.* In: **Logic, Methodology and Philosophy of Science**, edited by Y. Bar-Hillel. North-Holland Publishing Company, 1965, pp. 58–68.

1969 *Decidability of second-order theories and automata on infinite trees.* **Transactions of the American Mathematical Society**, vol. 141 (1969), pp. 1–35.

1972 **Automata on infinite objects and Church's problem.** **American Mathematical Society Regional Conference Series**, vol. 13, 1972, iii+22 pp.

1977 *Decidable theories.* In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 595–629.

See also: M. J. Fischer and M. O. Rabin 1974.

RABIN, M. O. and SCOTT, D. S.

1959 *Finite automata and their decision problems.* **IBM Journal of Research and Development**, vol. 3 (1959), pp. 114–125.

RACKOFF, C. W.

1972 *The emptiness and the complementation problems for automata on infinite trees.* Master's Thesis, Massachusetts Institute of Technology, 1972, 44 pp.

RADO, R.

See: P. Erdős and R. Rado 1956; P. Erdős, A. Hajnal and R. Rado 1965.

RANDOLPH, J. D. and THOMASON, R. H.

1969 *Predicate calculus with free quantifier variables.* **Journal of Symbolic Logic**, vol. 34 (1969), pp. 1–7.

RANTALA, V.

1979 *Game-theoretical semantics and back-and-forth.* In: **Essays on Mathematical and Philosophical Logic**, edited by K. J. J. Hintikka, I. Niiniluoto, and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 119–151.

See also: K. J. J. Hintikka and V. Rantala 1976.

RAPP, A.

1982 *Elimination of Malitz quantifiers in stable theories.* Manuscript, University of Freiburg, 1982, 18 pp.

- 1983 *Zur Ausdrucksstärke von Logiken mit Malitz-Quantoren*. Doctoral Dissertation, University of Freiburg, 1983, 100 pp.
- 1984 *On the expressive power of the logics $L(Q^{(n_1, \dots, n_m)})$* . *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 30 (1984), pp. 11–20.
- 198? *The ordered field of real numbers and logics with Malitz quantifiers*. *Journal of Symbolic Logic*. To appear.
- RASIOWA, H. and SIKORSKI, R.
- 1963 *The Mathematics of Metamathematics*. Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1963, 519 pp.
- RATAJCZYK, Z.
- 19?? *On axiomatization of ZF^{KM} and ZF^{KM_n}* . Details unknown.
- RÄTY, A.
- 1980 *Notes on higher-order quantification*. *Journal of Symbolic Logic*, vol. 45 (1980), p. 404. Abstract.
- RAUTENBERG, W.
- See: K. Hauschild and W. Rautenberg 1971; K. Hauschild and W. Rautenberg 1973.
- REINHARDT, W. N.
- See: J. E. Baumgartner, J. J. Malitz and W. N. Reinhardt 1970; J. J. Malitz and W. N. Reinhardt 1972a; J. J. Malitz and W. N. Reinhardt 1972b; R. M. Solovay, W. N. Reinhardt and A. Kanamori 1978.
- REMMEL, J. B.
- See: H. A. Kierstead and J. B. Remmel 1983.
- RESCHER, N.
- 1962 *Plurality quantification*. *Journal of Symbolic Logic*, vol. 27 (1962), pp. 373–374.
- See also: J. W. Garson and N. Rescher 1968.
- RESSAYRE, J. P.
- 1969 *Sur les théories du premier ordre catégoriques en un cardinal*. *Transactions of the American Mathematical Society*, vol. 142 (1969), pp. 481–505.
- 1973 *Boolean models and infinitary first-order languages*. *Annals of Mathematical Logic*, vol. 6 (1973), pp. 41–92.
- 1977 *Models with compactness properties relative to an admissible language*. *Annals of Mathematical Logic*, vol. 11 (1977), pp. 31–55.
- RESSAYRE, J. P. and LASSAIGNE, R.
- 1974 *Boolean algebras and infinitary languages*. *Journal of Symbolic Logic*, vol. 39 (1974), p. 383. Abstract.

REYES, G. E.

- 1967 *Typical and generic relations in a Baire space for models*. Doctoral Dissertation, University of California, Berkeley, 1967, 101 pp.
- 1970 *Local definability theory*. *Annals of Mathematical Logic*, vol. 1 (1970), pp. 95–137.
- 1972 *$L_{\omega_1, \omega}$ is enough: A reduction theorem for some infinitary languages*. *Journal of Symbolic Logic*, vol. 37 (1972), pp. 705–710.
- See also: M. Makkai and G. E. Reyes 1976a; M. Makkai and G. E. Reyes 1976b.

RICHTER, M. M.

See: R. H. Hunter, M. M. Richter and E. A. Walker 1977.

RICHTER, W. H.

See: P. H. G. Aczel and W. H. Richter 1974.

ROBINSON, A.

- 1956a *A result on consistency and its application to the theory of definition*. *Indagationes Mathematicae*, vol. 18 (1956), pp. 47–58.
- 1956b *Complete Theories*. North-Holland Publishing Company, 1956, viii+129 pp.
- 1956c *Note on a problem of L. Henkin*. *Journal of Symbolic Logic*, vol. 21 (1956), pp. 33–35.
- 1963 *Introduction to Model Theory and to the Metamathematics of Algebra*. North-Holland Publishing Company, 1963, ix+284 pp.
- 1973 *Metamathematical problems*. *Journal of Symbolic Logic*, vol. 38 (1973), pp. 500–516.
- 1974 *A note on topological model theory*. *Fundamenta Mathematicae*, vol. 81 (1974), pp. 159–171.

ROBINSON, R. M.

See: A. Tarski, A. Mostowski and R. M. Robinson 1953.

ROBSON, J. C.

See: R. Gordon and J. C. Robson 1973.

RODENHAUSEN, H.

- 1982 *The completeness theorem for adapted probability logic*. Doctoral Dissertation, University of Heidelberg, 1982, 212 pp.

ROGERS, H.

- 1956 *Certain logical reduction and decision problems*. *Annals of Mathematics*, vol. 64 (1956), pp. 264–284.
- 1967 *Theory of Recursive Functions and Effective Computability*. McGraw-Hill Book Company, 1967, xix+482 pp.

ROSENTHAL, H. P.

See: J. Bourgain, H. P. Rosenthal and G. Schechtman 1981.

ROTHMALER, P.

- 1981 Q_0 is eliminable in every complete theory of modules. In: **Workshop on Extended Model Theory**, edited by H. Herre. Akademie der Wissenschaften der DDR, Institut für Mathematik, 1981, pp. 136–144.
- 1983a *Some model theory of modules, I: On total transcendence of modules.* **Journal of Symbolic Logic**, vol. 48 (1983), pp. 570–574.
- 1983b *Some model theory of modules, II: On stability and categoricity of flat modules.* **Journal of Symbolic Logic**, vol. 48 (1983), pp. 970–985.
- 1984 *Some model theory of modules, III: On infiniteness of sets definable in modules.* **Journal of Symbolic Logic**, vol. 49 (1984), pp. 32–46.

ROTHMALER, P. and TUSCHIK, H.-P.

- 1982 *A two cardinal theorem for homogeneous sets and the elimination of Malitz quantifiers.* **Transactions of the American Mathematical Society**, vol. 269 (1982), pp. 273–283.

ROWBOTTOM, F.

- 1964 *The Loś conjecture for uncountable theories. Preliminary report.* **Notices of the American Mathematical Society**, vol. 11 (1964), pp. 248–249. Abstract.
- 1971 *Some strong axioms of infinity incompatible with the axiom of constructibility.* **Annals of Mathematical Logic**, vol. 3 (1971), pp. 1–44.

ROWLANDS-HUGHES, D. M.

- 1979 *Back and forth methods in abstract model theory.* Doctoral Dissertation, Oxford University, 1979, 149 pp.

RUBEL, L. A.

See: C. W. Henson, C. G. Jockusch, L. A. Rubel and G. Takeuti 1977.

RUBIN, M.

- 1974 *Theories of linear order.* **Israel Journal of Mathematics**, vol. 17 (1974), pp. 392–443.
- 1976 *The theory of Boolean algebras with a distinguished subalgebra is undecidable.* **Annales Scientifiques de l'Université de Clermont. Série Mathématique (Clermont-Ferrand)**, vol. 13 (1976), pp. 129–134.
- 1982 *A Boolean algebra with few subalgebras, interval algebras and retractiveness.* **Transactions of the American Mathematical Society**, vol. 278 (1982), pp. 65–89.
- See also: J. J. Malitz and M. Rubin 1978; J. J. Malitz and M. Rubin 1980.

RUBIN, M. and SHELAH, S.

1980 *On the elementary equivalence of automorphism groups of Boolean algebras, downward Skolem-Löwenheim theorems and compactness of related quantifiers.* **Journal of Symbolic Logic**, vol. 45 (1980), pp. 265–283.

1983 *On the expressibility hierarchy of Magidor-Malitz quantifiers.* **Journal of Symbolic Logic**, vol. 48 (1983), pp. 542–557.

RUDIN, M. E.

See: Y. Benyamini, M. E. Rudin and M. L. Wage 1977.

RYLL-NARDZEWSKI, C.

See: A. Grzegorzcyk, A. Mostowski and C. Ryll-Nardzewski 1961.

SABBAGH, G.

See: P. C. Eklof and G. Sabbagh 1971.

SACKS, G. E.

1972 **Saturated Model Theory.** W.A. Benjamin, Inc., 1972, xii+335 pp.

See also: G. Kreisel and G. E. Sacks 1965.

SAIN, I.

1979 *There are general rules for specifying semantics: observations on abstract model theory.* **Computational Linguistics and Computer Languages**, vol. 13 (1979), pp. 195–250.

1982 *Finitary logics of infinitary structures are compact.* **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), p. 253.

See also: H. Andréka, I. Németi and I. Sain 1984; B. H. Hien and I. Sain 1982.

SCHECHTMAN, G.

See: J. Bourgain, H. P. Rosenthal and G. Schechtman 1981.

SCHIEMANN, I.

1977 *Eine Axiomatisierung des monadischen Prädikatenkalküls mit verallgemeinerten Quantoren.* **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 26 (1977), pp. 647–657.

1978 *Untersuchungen zu Logiken mit Lindström-Quantoren.* Doctoral Dissertation, Humboldt-Universität, Berlin, 1978, 151 pp.

SCHLIPF, J. S.

1975 *Some hyperelementary aspects of model theory.* Doctoral Dissertation, University of Wisconsin, Madison, 1975, 165 pp.

- 1977 *A guide to the identification of admissible sets above structures.* **Annals of Mathematical Logic**, vol. 12 (1977), pp. 151–192.
- 1978 *Toward model theory through recursive saturation.* **Journal of Symbolic Logic**, vol. 43 (1978), pp. 183–206.
 See also: K. J. Barwise and J. S. Schlipf 1975; K. J. Barwise and J. S. Schlipf 1976.
- SCHMERL, J. H.
- 1972 *An elementary sentence which has ordered models.* **Journal of Symbolic Logic**, vol. 37 (1972), pp. 521–530.
- 1974 *Generalizing special Aronszajn trees.* **Journal of Symbolic Logic**, vol. 39 (1974), pp. 732–740.
- 1976 *On κ -like structures which embed stationary and closed unbounded sets.* **Annals of Mathematical Logic**, vol. 10 (1976), pp. 289–314.
- 1982 *Peano arithmetic and hyper-Ramsey logic. Preliminary report.* **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), pp. 412–413. Abstract.
- SCHMERL, J. H. and SHELAH, S.
- 1972 *On power-like models for hyperinaccessible cardinals.* **Journal of Symbolic Logic**, vol. 37 (1972), pp. 531–537.
- SCHMERL, J. H. and SIMPSON, S. G.
- 1982 *On the role of Ramsey quantifiers in first order arithmetic.* **Journal of Symbolic Logic**, vol. 47 (1982), pp. 423–435.
- SCHMITT, P. H.
- 1982 *Model theory of ordered Abelian groups.* Habilitationsschrift, Universität Heidelberg, 1982, xv+226 pp.
 See also: G. L. Cherlin and P. H. Schmitt 1980; G. L. Cherlin and P. H. Schmitt 1981; G. L. Cherlin and P. H. Schmitt 1983; Y. Gurevich and P. H. Schmitt 1984.
- SCHÖNFELD, W.
- 1974 *Ehrenfeucht-Fraïssé Spiel, Disjunktive Normalform und Endlichkeitssatz.* Doctoral Dissertation, Universität Stuttgart, 1974, v+53 pp.
- SCHREIBER, P.
- 1965 *Untersuchungen über die Modelle der Typentheorie.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 11 (1965), pp. 343–372.
- SCHWARTZ, D.
- 1980 *Cylindric algebras with filter quantifiers.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 26 (1980), pp. 251–254.

SCOTT, D. S.

- 1958 *On the Löwenheim-Skolem theorem in weak second-order logic.* **Notices of the American Mathematical Society**, vol. 6 (1958), p. 778. Abstract.
- 1961 *Measurable cardinals and constructible sets.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 9 (1961), pp. 521–524.
- 1964 *Invariant Borel sets.* **Fundamenta Mathematicae**, vol. 56 (1964), pp. 117–128.
- 1965 *Logic with denumerably long formulas and finite strings of quantifiers.* In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 329–341. **See also:** T. E. Frayne, A. C. Morel and D. S. Scott 1962; W. Hanf and D. S. Scott 1961; P. H. Krauss and D. S. Scott 1966; M. O. Rabin and D. S. Scott 1959.

SCOTT, D. S. and TARSKI, A.

- 1958 *The sentential calculus with infinitely long expressions.* **Colloquium Mathematicum**, vol. 6 (1958), pp. 165–170.

SEESE, D. G.

- 1972 *Entscheidbarkeits- und Definierbarkeitsfragen der Theorie "netzartiger" Graphen, I.* **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 21 (1972), pp. 513–517.
- 1975a *Ein Unentscheidbarkeitskriterium.* **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 24 (1975), pp. 772–783.
- 1975b *Zur Entscheidbarkeit der monadischen Theorie 2. Stufe baumartiger Graphen.* **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 24 (1975), pp. 768–772.
- 1976 *Entscheidbarkeits- und Definierbarkeitsfragen monadischer Theorien zweiter Stufe gewisser Klassen von Graphen.* Doctoral Dissertation, Humboldt-Universität, Berlin, 1976, 172 pp.
- 1977a *Decidability of ω -trees with bounded sets—a survey.* In: **Fundamentals of Computation Theory**, edited by M. Karpiński. Springer-Verlag **Lecture Notes in Computer Science**, vol. 56 (1977), pp. 511–515.
- 1977b *Second order logic, generalized quantifiers and decidability.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 25 (1977), pp. 725–732.
- 1977c *Partitions for trees. Contributions to graph theory and its applications.* In: **Beiträge zur Graphentheorie und deren Anwendungen.** Technische Hochschule Ilmenau, 1977, pp. 235–238.

- 1978a *Decidability and generalized quantifiers*. In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 229–237.
- 1978b *Decidability of ω -trees with bounded sets*. Manuscript, Akademie der Wissenschaften der DDR, Zentralinstitut für Mathematik und Mechanik, 1978, 52 pp.
- 1978c *A remark to the undecidability of well-orderings with the Härtig quantifier*. **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 26 (1978), p. 951.
- 1978d *Über unentscheidbare Erweiterungen von SC*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 24 (1978), pp. 63–71.
- 1979 *Some graph-theoretical operations and decidability*. **Mathematische Nachrichten**, vol. 87 (1979), pp. 15–21.
- 1981a *Elimination of second-order quantifiers for well-founded trees in stationary logic and finitely determinate structures*. In: **Fundamentals of Computation Theory**, edited by F. Gécseg. Springer-Verlag **Lecture Notes in Computer Science**, vol. 117 (1981), pp. 341–349.
- 1981b *Stationary logic and ordinals*. **Transactions of the American Mathematical Society**, vol. 263 (1981), pp. 111–124.
See also: A. Baudisch, D. G. Seese, and H.-P. Tuschik 1983; A. Baudisch, D. G. Seese, H.-P. Tuschik and M. Weese 1980.
- SEESE, D. G. and TUSCHIK, H.-P.
- 1977 *Constructions of nice trees*. In: **Set Theory and Hierarchy Theory V**, edited by A. H. Lachlan, M. Srebrny and A. Zarach. Springer-Verlag **Lecture Notes in Mathematics**, vol. 619 (1977), pp. 257–271.
- SEESE, D. G., TUSCHIK, H.-P. and WEESE, M.
- 1982 *Undecidable theories in stationary logic*. **Proceedings of the American Mathematical Society**, vol. 84 (1982), pp. 563–567.
- SEESE, D. G. and WEESE, M.
- 1977 *Ehrenfeucht's game for stationary logic*. Manuscript, Humboldt-Universität, Berlin, 1977, 6 pp.
- 1982 *$L(aa)$ -elementary types of well-orderings*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 25 (1982), pp. 557–564.
- SEIDENBERG, A.
- 1958 *Comments on Lefschetz's principle*. **American Mathematical Monthly**, vol. 65 (1958), pp. 685–690.
- SGRO, J. A.
- 1976 *Completeness theorems for continuous functions and product topologies*. **Israel Journal of Mathematics**, vol. 25 (1976), pp. 249–272.

- 1977a *Completeness theorems for topological models*. **Annals of Mathematical Logic**, vol. 11 (1977), pp. 173–193.
- 1977b *Maximal logics*. **Proceedings of the American Mathematical Society**, vol. 63 (1977), pp. 291–298.
- 1980a *The interior operator logic and product topologies*. **Transactions of the American Mathematical Society**, vol. 258 (1980), pp. 99–112.
- 1980b *Interpolation fails for the Souslin-Kleene closure of the open set quantifier logic*. **Proceedings of the American Mathematical Society**, vol. 78 (1980), pp. 568–572.
- SHAFAT, A.
- 1967 *Principle of localization for a more general type of languages*. **Proceedings of the London Mathematical Society**, vol. 17 (1967), pp. 629–643.
- SHELAH, S.
- 1967 *Thesis* (in Hebrew). Master's Thesis, Hebrew University, 1967.
- 1969 *On stable theories*. **Israel Journal of Mathematics**, vol. 7 (1969), pp. 187–202.
- 1970a *A note on Hanf numbers*. **Pacific Journal of Mathematics**, vol. 34 (1970), pp. 541–545.
- 1970b *Finite diagrams stable in power*. **Annals of Mathematical Logic**, vol. 2 (1970), pp. 69–118.
- 1970c *Solution of Loś conjecture for uncountable languages*. **Notices of the American Mathematical Society**, vol. 17 (1970), p. 968. Abstract.
- 1971a *On languages with non-homogeneous strings of quantifiers*. **Israel Journal of Mathematics**, vol. 8 (1971), pp. 75–79.
- 1971b *On the number of non-almost isomorphic models of T in a power*. **Pacific Journal of Mathematics**, vol. 36 (1971), pp. 811–818.
- 1971c *Two-cardinal and power-like models: compactness and large group of automorphisms*. **Notices of the American Mathematical Society**, vol. 18 (1971), p. 425. Abstract.
- 1971d *Two cardinal compactness*. **Israel Journal of Mathematics**, vol. 9 (1971), pp. 193–198.
- 1971e *Remark to "Local definability theory" of Reyes*. **Annals of Mathematical Logic**, vol. 2 (1971), pp. 441–447.
- 1972a *A combinatorial problem; stability and order for models and theories in infinitary languages*. **Pacific Journal of Mathematics**, vol. 41 (1972), pp. 247–261.
- 1972b *On models with power-like orderings*. **Journal of Symbolic Logic**, vol. 37 (1972), pp. 247–267.
- 1973a *First-order theory of permutation groups*. **Israel Journal of Mathematics**, vol. 14 (1973), pp. 149–162.

- 1973b *Errata to "First-order theory of permutation groups"*. **Israel Journal of Mathematics**, vol. 15 (1973), pp. 437-441.
- 1973c *There are just four second-order quantifiers*. **Israel Journal of Mathematics**, vol. 15 (1973), pp. 282-300.
- 1973d *Weak definability in infinitary languages*. **Journal of Symbolic Logic**, vol. 38 (1973), pp. 399-404.
- 1974a *Categoricity of uncountable theories*. In: **Proceedings of the Tarski Symposium**, edited by L. A. Henkin. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 25 (1974), pp. 187-205.
- 1974b *The Hanf number of omitting complete types*. **Pacific Journal of Mathematics**, vol. 50 (1974), pp. 163-168.
- 1975a *A compactness theorem for singular cardinals, free algebras, Whitehead problem and transversals*. **Israel Journal of Mathematics**, vol. 21 (1975), pp. 319-349.
- 1975b *A two-cardinal theorem*. **Proceedings of the American Mathematical Society**, vol. 48 (1975), pp. 207-213.
- 1975c *Categoricity in \aleph_1 of sentences in $L_{\omega_1, \omega}(\mathbb{Q})$* . **Israel Journal of Mathematics**, vol. 20 (1975), pp. 127-148.
- 1975d *Generalized quantifiers and compact logic*. **Transactions of the American Mathematical Society**, vol. 204 (1975), pp. 342-364.
- 1975e *The monadic theory of order*. **Annals of Mathematics**, vol. 102 (1975), pp. 379-419.
- 1975f *Why there are many nonisomorphic models for unsuperstable theories*. In: **Proceedings of the International Congress of Mathematicians. Volume One**, edited by R. D. James. **Canadian Mathematical Congress**, 1975, pp. 259-264.
- 1976a *Decomposing uncountable squares to countably many chains*. **Journal of Combinatorial Theory (A)**, vol. 21 (1976), pp. 110-114.
- 1976b *Refuting Ehrenfeucht conjecture on rigid models*. **Israel Journal of Mathematics**, vol. 25 (1976), pp. 273-286.
- 1977 *A two-cardinal theorem and a combinatorial theorem*. **Proceedings of the American Mathematical Society**, vol. 62 (1977), pp. 134-136.
- 1978a **Classification Theory and the Number of Non-isomorphic Models**. North-Holland Publishing Company, 1978, xvi+544 pp.
- 1978b *End extensions and number of countable models*. **Journal of Symbolic Logic**, vol. 43 (1978), pp. 550-562.
- 1978c *Models with second order properties, I: Boolean algebras with no undefinable automorphisms*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 57-72.
- 1978d *Models with second order properties, II: Trees with no undefined branches*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 73-87.

- 1978e *Appendix to "Models with second order properties, II: Trees with no undefined branches"*. **Annals of Mathematical Logic**, vol. 14 (1978), pp. 223–226.
- 1979a *On successors of singular cardinals*. In: **Logic Colloquium '78**, edited by M. Boffa, D. van Dalen and K. McAloon. North-Holland Publishing Company, 1979, pp. 357–380.
- 1979b *On uncountable Abelian groups*. **Israel Journal of Mathematics**, vol. 32 (1979), pp. 311–330.
- 1981a *Models with second order properties, III: Omitting types for $L(Q)$* . **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 21 (1981), pp. 1–11.
- 1981b *On the number of non-isomorphic models of cardinality λ $L_{\infty\lambda}$ -equivalent to a fixed model*. **Notre Dame Journal of Formal Logic**, vol. 22 (1981), pp. 5–10.
- 1982a *Measure, Craig, $L(aa)$, finite axiomatizability*. **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), p. 130. Abstract.
- 1982b *On the number of non-isomorphic models in $L_{\infty\kappa}$ when κ is weakly compact*. **Notre Dame Journal of Formal Logic**, vol. 23 (1982), pp. 21–26.
- 1982c **Proper forcing**. **Springer-Verlag Lecture Notes in Mathematics**, vol. 940, 1982, xxix+496 pp.
- 1982d *The spectrum problem, I: \aleph_ε -saturated models, the main gap*. **Israel Journal of Mathematics**, vol. 43 (1982), pp. 324–356.
- 1982e *The spectrum problem, II: Totally transcendental and infinite depth*. **Israel Journal of Mathematics**, vol. 43 (1982), pp. 357–364.
- 1982f *Why am I so happy?* **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), p. 282. Abstract.
- 1983a *A classification of generalized quantifiers*. Manuscript, The Hebrew University of Jerusalem, 1983.
- 1983b *Classification theory of non-elementary classes, I: The number of uncountable models of $\psi \in L_{\omega_1, \omega}$. Part A*. **Israel Journal of Mathematics**, vol. 46 (1983), pp. 212–240.
- 1983c *Classification theory of non-elementary classes, I: The number of uncountable models of $\psi \in L_{\omega_1, \omega}$. Part B*. **Israel Journal of Mathematics**, vol. 46 (1983), pp. 241–273.
- 1983d *Models with second order properties, IV: A general method and eliminating diamonds*. **Annals of Pure and Applied Logic**, vol. 25 (1983), pp. 183–212.
- 1983e *Results in math. logic, I*. **Abstracts of Papers Presented to the American Mathematical Society**, vol. 4 (1983), p. 189. Abstract.
- 1984a *On co- κ -Souslin relations*. **Israel Journal of Mathematics**, vol. 47 (1984), pp. 139–153.

- 1984b *A pair of nonisomorphic $\equiv_{\infty\lambda}$ models of power λ for λ singular with $\lambda^\omega = \lambda$.* **Notre Dame Journal of Formal Logic**, vol. 25 (1984), pp. 97-104.
- 198?a “ $L^{<\omega}$ is not countably compact” is consistent. Manuscript, Hebrew University. In preparation.
- 198?b *Monadic logic: Löwenheim numbers.* **Annals of Pure and Applied Logic**. To appear.
- 198?c *Classification theory for non-elementary classes, II: Abstract elementary classes.* Manuscript, Hebrew University. In preparation.
- 198?d *Monadic Logic: Hanf numbers.* **Annals of Pure and Applied Logic**. To appear.
- 198?e *Remarks on Abstract Model Theory.* **APAL**. To appear.

See also: J. T. Baldwin and S. Shelah 1982; K. J. Devlin and S. Shelah 1978; S. D. Friedman and S. Shelah 1983; D. Giorgetta and S. Shelah 1984; R. Grossberg and S. Shelah 1983; Y. Gurevich and S. Shelah 1979; Y. Gurevich and S. Shelah 1981a; Y. Gurevich and S. Shelah 1981b; Y. Gurevich and S. Shelah 1981c; Y. Gurevich and S. Shelah 1982; Y. Gurevich and S. Shelah 1983a; Y. Gurevich and S. Shelah 1983b; Y. Gurevich and S. Shelah 1983c; Y. Gurevich, M. Magidor and S. Shelah 1983; L. A. Harrington and S. Shelah 1982; L. A. Harrington, M. Makkai and S. Shelah 198?; W. Hodges and S. Shelah 1981; A. J. Macintyre and S. Shelah 1976; M. Magidor and S. Shelah 1983; M. Magidor, S. Shelah and J. Stavi 1984; J. A. Makowsky and S. Shelah 1976; J. A. Makowsky and S. Shelah 1979a; J. A. Makowsky and S. Shelah 1979b; J. A. Makowsky and S. Shelah 1981; J. A. Makowsky and S. Shelah 1983; J. A. Makowsky and S. Shelah 198?a; J. A. Makowsky and S. Shelah 198?b; J. A. Makowsky, S. Shelah, and J. Stavi 1976; A. H. Mekler and S. Shelah 1983; A. H. Mekler and S. Shelah 198?; M. Rubin and S. Shelah 1980; M. Rubin and S. Shelah 1983; J. H. Schmerl and S. Shelah 1972.

SHELAH, S. and KAUFMANN, M. J.

- 198?a *The Hanf number of stationary logic I.* **Notre Dame Journal of Formal Logic**. To appear.
- 198?b *The Hanf number of stationary logic II.* **Notre Dame Journal of Formal Logic**. To appear.

SHELAH, S. and STEINHORN, C. I.

- 1982 *On the non-axiomatizability of some logics by finitely many schemas.* **Abstracts of Papers Presented to the American Mathematical Society**, vol. 3 (1982), p. 311. Abstract.
- 198? *On the non-axiomatizability of some logics by finitely many schemas.* **Notre Dame Journal of Formal Logic**. To appear.

SHELAH, S. and STERN, J.

- 1978 *The Hanf number of the first order theory of Banach spaces*. **Transactions of the American Mathematical Society**, vol. 244 (1978), pp. 147-171.

SHELAH, S. and ZIEGLER, M.

- 1979 *Algebraically closed groups of large cardinality*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 522-532.

SHOENFIELD, J. R.

- 1967 **Mathematical Logic**. Addison-Wesley, 1967, vii+344 pp.
- 1971 *Unramified forcing*. In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 357-382.

SHORE, R. A.

- 1977 *α -recursion theory*. In: **Handbook of Mathematical Logic**, edited by K. J. Barwise. North-Holland Publishing Company, 1977, pp. 653-680.

SIEFKES, D.

- 1968 *Recursion theory and the theorem of Ramsey in one-place second order successor arithmetic*. In: **Contributions to Mathematical Logic**, edited by H. A. Schmidt, K. Schütte and H.-J. Thiele. North-Holland Publishing Company, 1968, pp. 237-254.
- 1970 **Büchi's Monadic Second-order Successor Arithmetic**. **Springer-Verlag Lecture Notes in Mathematics**, vol. 120, 1970, xii+130 pp.
- See also: J. R. Büchi and D. Siefkes 1973; J. R. Büchi and D. Siefkes 1983.

SIERPIŃSKI, W.

- 1950 *Sur les types d'ordre des ensembles linéaires*. **Fundamenta Mathematicae**, vol. 37 (1950), pp. 253-264.
- 1958 **Cardinal and Ordinal Numbers**. Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1958, 487 pp.

SIKORSKI, R.

See: H. Rasiowa and R. Sikorski 1963.

SILVER, J. H.

- 1966 *Some applications of model theory in set theory*. Doctoral Dissertation, University of California, Berkeley, 1966, 110 pp.
- 1971a *Some applications of model theory in set theory*. **Annals of Mathematical Logic**, vol. 3 (1971), pp. 45-110.

- 1971b *The independence of Kurepa's conjecture and two-cardinal conjectures in model theory.* In: **Axiomatic Set Theory, Part I**, edited by D. S. Scott. **American Mathematical Society Proceedings of Symposia in Pure Mathematics**, vol. 13 (1971), pp. 383–390.

See also: H. J. Keisler and J. H. Silver 1971.

SIMPSON, S. G.

- 1970 *Model-theoretic proof of a partition theorem.* **Notices of the American Mathematical Society**, vol. 17 (1970), p. 964. Abstract.

See also: J. H. Schmerl and S. G. Simpson 1982.

SIMPSON, S. G., KREISEL, G. and MINC, G. E.

- 1975 *The use of abstract language in elementary metamathematics: some pedagogic examples.* In: **Logic Colloquium**, edited by R. Parikh. **Springer-Verlag Lecture Notes in Mathematics**, vol. 453 (1975), pp. 38–131.

SŁOMIŃSKI, J.

- 1956 *On the extending of models, III: Extensions in equationally definable classes of algebras.* **Fundamenta Mathematicae**, vol. 43 (1956), pp. 69–76.

- 1958 *Theory of models with infinitary operations and relations.* **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 6 (1958), pp. 449–456.

See also: J. Loś, J. Słomiński and R. Suszko 1959.

SLOMSON, A. B.

- 1967 *Some problems in mathematical logic.* Doctoral Dissertation, Oxford University, 1967, viii+121 pp.

- 1968 *The monadic fragment of predicate calculus with the Chang quantifier and equality.* In: **Proceedings of the Summer School in Logic, Leeds, 1967**, edited by M.H. Löb. **Springer-Verlag Lecture Notes in Mathematics**, vol. 70 (1968), pp. 279–301.

- 1972 *Generalized quantifiers and well orderings.* **Archiv für Mathematische Logik und Grundlagenforschung**, vol. 15 (1972), pp. 57–73.

- 1976 *Decision problems for generalized quantifiers—a survey.* In: **Set Theory and Hierarchy Theory: A Memorial Tribute to Andrzej Mostowski**, edited by W. Marek, M. Srebrny and A. Zarach. **Springer-Verlag Lecture Notes in Mathematics**, vol. 537 (1976), pp. 249–258.

See also: J. L. Bell and A. B. Slomson 1969.

SLOMNEGER, K.

- 1976 *A complete infinitary logic.* **Journal of Symbolic Logic**, vol. 41 (1976), pp. 730–746.

SMULLYAN, R. M.

1963 *A unifying principle in quantification theory*. **Proceedings of the National Academy of Sciences of the USA**, vol. 49 (1963), pp. 828-832.

1965 *A unifying principle in quantification theory*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 433-434. Abstract.

SNIR, M.

See: H. Gaifman and M. Snir 1982.

SOLOVAY, R. M., REINHARDT, W. N. and KANAMORI, A.

1978 *Strong axioms of infinity and elementary embeddings*. **Annals of Mathematical Logic**, vol. 13 (1978), pp. 73-116.

SOLOVAY, R. M. and TENNENBAUM, S.

1971 *Iterated Cohen extensions and Souslin's problem*. **Annals of Mathematics**, vol. 94 (1971), pp. 201-245.

SPECKER, E. P.

1949 *Sur un problème de Sikorski*. **Colloquium Mathematicum**, vol. 2 (1949), pp. 9-12.

See also: R. Mac Dowell and E. P. Specker 1961.

SPERSCHNEIDER, V.

1979 *Modelltheorie topologischer Vektorräume*. Doctoral Dissertation, University of Freiburg, 1979, 120 pp.

STANLEY, L. J.

1984 *Characterizing weak compactness*. **Annals of Pure and Applied Logic**, vol. 26 (1984), pp. 89-99.

STARK, W. R.

1980 *Martin's axiom in the model theory of L_A* . **Journal of Symbolic Logic**, vol. 45 (1980), pp. 172-176.

STAVI, J.

1973 *A converse of the Barwise completeness theorem*. **Journal of Symbolic Logic**, vol. 38 (1973), pp. 594-612.

1978 *Compactness properties of infinitary and abstract languages, I: General results*. In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 263-275.

See also: M. Magidor, S. Shelah and J. Stavi 1984; J. A. Makowsky, S. Shelah, and J. Stavi 1976; M. E. Nadel and J. Stavi 1977; M. E. Nadel and J. Stavi 1978.

STAVI, J. and VÄÄNÄNEN, J.

- 1979 *Reflection principles for the continuum*. Manuscript, University of Helsinki, 1979, 53 pp.

STEEL, J.

- 1978 *On Vaught's conjecture*. In: *Cabal Seminar 76-77*, edited by A. S. Kechris and Y. N. Moschovakis. *Springer-Verlag Lecture Notes in Mathematics*, vol. 689 (1978), pp. 193-208.

See also: D. A. Martin, Y. N. Moschovakis and J. Steel 1982.

STEINHORN, C. I.

- 1980 *On logics that express "there exist many indiscernibles"*. Doctoral Dissertation, University of Wisconsin, Madison, 1980, iv+139 pp.

- 1981 *Logics with a quantifier expressing "there exist large sets of indiscernibles"*. *Journal of Symbolic Logic*, vol. 46 (1981), p. 427. Abstract.

See also: S. Shelah and C. I. Steinhorn 1982; S. Shelah and C. I. Steinhorn 198?.

STERN, J.

- 1973 *Les premiers cardinaux compacts*. *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Série A*, vol. 277 (1973), pp. 401-403.

- 1976a *Some applications of model theory in Banach space theory*. *Annals of Mathematical Logic*, vol. 9 (1976), pp. 49-121.

- 1976b *The problem of envelopes for Banach spaces*. *Israel Journal of Mathematics*, vol. 24 (1976), pp. 1-15.

See also: S. Shelah and J. Stern 1978.

STEWART, F. M.

See: D. Gale and F. M. Stewart 1953.

STONE, A. L.

- 1969 *Nonstandard analysis in topological algebra*. In: *Applications of Model Theory to Algebra, Analysis, and Probability*, edited by W. A. J. Luxemburg. Holt, Rinehart and Winston, 1969, pp. 285-299.

STUPP, J.

- 1975 *The lattice model is recursive in the original model*. Manuscript, Hebrew University, 1975, 25 pp.

SUSZKO, R.

See: J. Loś and R. Suszko 1955; J. Loś and R. Suszko 1957; J. Los, J. Słomiński, and R. Suszko 1959.

SUZUKI, Y.

- 1968 \aleph_0 -standard models for set theory. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 16 (1968), pp. 265-267.

SVENONIUS, L.

- 1965 *On the denumerable models of theories with extra predicates*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 376-389.

SWAN, R. G.

See: M. P. Murthy and R. G. Swan 1976.

SWEET, A. M.

- 1979 *Intended model theory*. *Notre Dame Journal of Formal Logic*, vol. 20 (1979), pp. 575-592.

SWETT, A. K.

- 1974 *Absolute logics: Δ -closures and the number of countable models. Preliminary report*. *Notices of the American Mathematical Society*, vol. 21 (1974), pp. A-553-A-554. Abstract.

SZMIELEW, W.

- 1955 *Elementary properties of Abelian groups*. *Fundamenta Mathematicae*, vol. 41 (1955), pp. 203-271.

TAKEUTI, G.

- 1960 *On the recursive functions of ordinal numbers*. *Journal of the Mathematical Society of Japan*, vol. 12 (1960), pp. 119-128.
- 1965 *Recursive functions and arithmetical functions of ordinal numbers*. In: **Logic, Methodology and Philosophy of Science**, edited by Y. Bar-Hillel. North-Holland Publishing Company, 1965, pp. 179-196.
- 1968 *A determinate logic*. In: **The Syntax and Semantics of Infinitary Languages**, edited by K. J. Barwise. Springer-Verlag Lecture Notes in Mathematics, vol. 72 (1968), pp. 237-264.
- 1970 *A determinate logic*. *Nagoya Mathematical Journal*, vol. 38 (1970), pp. 113-138.

See also: C. W. Henson, C. G. Jockusch, L. A. Rubel and G. Takeuti 1977; A. Kino and G. Takeuti 1963; S. Maehara and G. Takeuti 1961.

TARSKI, A.

- 1949 *Arithmetical classes and types of Boolean algebras. Preliminary report*. *Bulletin of the American Mathematical Society*, vol. 55 (1949), p. 64. Abstract.
- 1951 **A Decision Method for Elementary Algebra and Geometry**. University of California Press, Berkeley and Los Angeles, 1951, iii+63 pp.

- 1952 *Some notions and methods on the borderline of algebra and metamathematics*. In: **Proceedings of the International Congress of Mathematicians**. 1950. Volume I, edited by L. M. Graves, E. Hille, P. A. Smith and O. Zariski. American Mathematical Society, 1952, pp. 705–720.
- 1954 *Contributions to the theory of models, I and II*. **Indagationes Mathematicae**, vol. 16 (1954), pp. 572–588.
- 1955 *Contributions to the theory of models, III*. **Indagationes Mathematicae**, vol. 17 (1955), pp. 56–64.
- 1958a *Models of universal sentences in predicate logic with infinitely long formulas*. **Notices of the American Mathematical Society**, vol. 5 (1958), p. 67. Abstract.
- 1958b *Remarks on predicate logic with infinitely long expressions*. **Colloquium Mathematicum**, vol. 6 (1958), pp. 171–176.
- 1958c *Some model-theoretical results concerning weak second-order logic*. **Notices of the American Mathematical Society**, vol. 5 (1958), p. 673. Abstract.
- 1961a *A model-theoretical result concerning infinitary logics*. **Notices of the American Mathematical Society**, vol. 8 (1961), p. 260. Abstract.
- 1961b *Representable Boolean algebras and infinitary logics*. **Notices of the American Mathematical Society**, vol. 8 (1961), pp. 154–155. Abstract.
- 1962 *Some problems and results relevant to the foundations of set theory*. In: **Logic, Methodology and Philosophy of Science**, edited by E. Nagel, P. Suppes and A. Tarski. Stanford University Press, 1962, pp. 125–135.
- See also: J. E. Doner, A. Mostowski and A. Tarski 1978; H. J. Keisler and A. Tarski 1964; A. Mostowski and A. Tarski 1949; D. S. Scott and A. Tarski 1958.
- TARSKI, A., MOSTOWSKI, A. and ROBINSON, R. M.
- 1953 **Undecidable theories**. North-Holland Publishing Company, 1953, xi+98 pp.
- TARSKI, A. and VAUGHT, R. L.
- 1957 *Arithmetical extensions of relational systems*. **Compositio Mathematica**, vol. 13 (1957), pp. 81–102.
- TAYLOR, W.
- 1971 *Some constructions of compact algebras*. **Annals of Mathematical Logic**, vol. 3 (1971), pp. 395–435.
- 1972 *Residually small varieties*. **Algebra Universalis**, vol. 2 (1972), pp. 33–53.
- 1973 *Characterizing Mal'cev conditions*. **Algebra Universalis**, vol. 3 (1973), pp. 351–397.

TENNENBAUM, S.

See: R. M. Solovay and S. Tennenbaum 1971.

TENNEY, R. L.

1975 *Second-order Ehrenfeucht games and the decidability of the second-order theory of an equivalence relation.* **Journal of the Australian Mathematical Society**, vol. 20 (1975), pp. 323-331.

THARP, L. H.

1973 *The characterization of monadic logic.* **Journal of Symbolic Logic**, vol. 38 (1973), pp. 481-488.

1974 *Continuity and elementary logic.* **Journal of Symbolic Logic**, vol. 39 (1974), pp. 700-716.

1975 *Which logic is the right logic?* **Synthese**, vol. 31 (1975), pp. 1-21.

THATCHER, J. W. and WRIGHT, J. B.

1968 *Generalized automata theory with an application to a decision problem of second-order logic.* **Mathematical Systems Theory**, vol. 2 (1968), pp. 57-81.

THOMAS, W.

1981 *A combinatorial approach to the theory of ω -automata.* **Information and Control**, vol. 48 (1981), pp. 261-283.

See also: H. D. Ebbinghaus, J. Flum and W. Thomas 1984.

THOMASON, R. H.

1966 *A system of logic with free variables ranging over quantifiers.* **Journal of Symbolic Logic**, vol. 31 (1966), p. 700. Abstract.

See also: J. D. Randolph and R. H. Thomason 1969.

THOMSON, J.

1967 *Proof of the law of infinite conjunction using the perfect disjunctive normal form.* **Journal of Symbolic Logic**, vol. 32 (1967), pp. 196-197.

TOUBASSI, E.

See: W. May and E. Toubassi 1977.

TRAHTENBROT, B. A.

1950 *The impossibility of an algorithm for the decision problem for finite domains (Russian).* **Doklady Akademii Nauk SSSR**, vol. 70 (1950), pp. 569-572.

TUCKER, J. V.

See: J. A. Bergstra and J. V. Tucker 1984.

TUGUÉ, T.

- 1964 *On the partial recursive functions of ordinal numbers. Journal of the Mathematical Society of Japan*, vol. 16 (1964), pp. 1-31.

TULIPANI, S.

- 1975 *Questioni di teoria dei modelli per linguaggi universali positivi, II: Metodi di "back and forth". Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII*, vol. 59 (1975), pp. 328-335.
- 1984 *On the universal theory of classes of finite models. Transactions of the American Mathematical Society*, vol. 284 (1984), pp. 163-170.
See also: J. A. Makowsky and S. Tulipani 1977; A. Marcja and S. Tulipani 1974.

TUSCHIK, H.-P.

- 1975 \aleph_1 -*Kategorizität*. Doctoral Dissertation, Humboldt-Universität, Berlin, 1975, vii+132 pp.
- 1977a *Elimination verallgemeinerter Quantoren in \aleph_1 -kategorischen Theorien. Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe*, vol. 26 (1977), pp. 659-661.
- 1977b *On the decidability of the theory of linear orderings in the language $L(Q_1)$* . In: *Set Theory and Hierarchy Theory V*, edited by A. H. Lachlan, M. Srebrny and A. Zarach. Springer-Verlag Lecture Notes in Mathematics, vol. 619 (1977), pp. 291-304.
- 1980 *On the decidability of the theory of linear orderings with generalized quantifiers. Fundamenta Mathematicae*, vol. 107 (1980), pp. 21-32.
- 1982a *Elimination of cardinality quantifiers. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 28 (1982), pp. 75-81.
- 1982b *Untersuchung linearer Ordnungen in der Logik mit Malitzquantoren. Habilitationsschrift, Humboldt-Universität, Berlin, 1982, 116 pp.*
See also: A. Baudisch, D. G. Seese, and H.-P. Tuschik 1983; A. Baudisch, D. G. Seese, H.-P. Tuschik and M. Weese 1980; P. Rothmaler and H.-P. Tuschik 1982; D. G. Seese and H.-P. Tuschik 1977; D. G. Seese, H.-P. Tuschik and M. Weese 1982.

UESU, T.

- 1971 *Simple type theory with constructive infinitely long expressions. Commentarii Mathematici Universitatis Sancti Pauli (Tokyo)*, vol. 19 (1971), pp. 131-163.

ULAM, S.

- 1930 *Zur Masstheorie in der allgemeinen Mengenlehre*. **Fundamenta Mathematicae**, vol. 16 (1930), pp. 140–150.

URQUHART, A.

- 1976 *Elementary classes in infinitary logic*. **Journal of Symbolic Logic**, vol. 41 (1976), p. 552. Abstract.

URYSON, P. S.

See: P. S. Aleksandrov and P. S. Uryson 1929.

VÄÄNÄNEN, J.

- 1977a *Applications of set theory to generalized quantifiers*. Doctoral Dissertation, University of Manchester, 1977, 131 pp.
- 1977b *On the compactness theorem*. In: **Proceedings of the Symposia on Mathematical Logic in Oulu '74 and Helsinki '75**, edited by S. Miettinen and J. Väänänen. **Reports from the Department of Philosophy, University of Helsinki**, vol. 2 (1977), pp. 62–68.
- 1977c *Remarks on generalized quantifiers and second-order logics*. In: **Set Theory and Hierarchy Theory**, edited by Y. Bar-Hillel. **Prace Naukowe Instytutu Matematyki Politechniki Wrocławskiej**, Wrocław, vol. 14 (1977), pp. 117–123.
- 1978 *Two axioms of set theory with applications to logic*. **Annales Academiae Scientiarum Fennicae. Series A I. Mathematica. Dissertationes**, vol. 20 (1978), pp. 1–19.
- 1979a *Abstract logic and set theory, I. Definability*. In: **Logic Colloquium '78**, edited by M. Boffa, D. van Dalen and K. McAloon. North-Holland Publishing Company, 1979, pp. 391–421.
- 1979b *On Hanf numbers of unbounded logics*. In: **Proceedings from 5th Scandinavian Logic Symposium**, edited by F. V. Jensen, B. Mayoh and K. Møller. Aalborg University Press, 1979, pp. 309–328.
- 1979c *On logic with the Häftig-quantifier*. **Journal of Symbolic Logic**, vol. 44 (1979), pp. 465–466. Abstract.
- 1979d *Remarks on free quantifier variables*. In: **Essays on Mathematical and Philosophical Logic**, edited by K. J. J. Hintikka, I. Niiniluoto, and E. Saarinen. D. Reidel Publishing Company, 1979, pp. 267–272.
- 1980a *A quantifier for isomorphisms*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 26 (1980), pp. 123–130.
- 1980b *Boolean-valued models and generalized quantifiers*. **Annals of Mathematical Logic**, vol. 18 (1980), pp. 193–225.
- 1980c *The Hanf number of L_{ω_1, ω_1}* . **Proceedings of the American Mathematical Society**, vol. 79 (1980), pp. 294–297.
- 1982a *Abstract logic and set theory, II: Large cardinals*. **Journal of Symbolic Logic**, vol. 47 (1982), pp. 335–345.

1982b *Generalized quantifiers in models of set theory*. In: **Patras Logic Symposium**, edited by G. Metakides. North-Holland Publishing Company, 1982, pp. 359–371.

1983 *Δ -extension and Hanf numbers*. **Fundamenta Mathematicae**, vol. 115 (1983), pp. 43–55.

See also: D. A. Anapolitanos and J. Väänänen 1981; M. Krynicki and J. Väänänen 1982; M. Krynicki, A. H. Lachlan and J. Väänänen 1984; J. Stavi and J. Väänänen 1979.

VAN DOUWEN, E. K.

See: K. Kunen and E. K. van Douwen 1982.

VAUGHAN, J. E.

1975 *Some properties related to $[a, b]$ -compactness*. **Fundamenta Mathematicae**, vol. 87 (1975), pp. 251–260.

VAUGHT, R. L.

1961a *Denumerable models of complete theories*. In: **Infinistic Methods: Proceedings of the Symposium on Foundations of Mathematics**, edited by Anonymous. Pergamon Press and Państwowe Wydawnictwo Naukowe (Polish Scientific Publishers), 1961, pp. 303–321.

1961b *The elementary character of two notions from general algebra*. In: **Essays on the Foundations of Mathematics**, edited by Y. Bar-Hillel, E. I. J. Poznanski, M. O. Rabin and A. Robinson. The Magnes Press, The Hebrew University, Jerusalem, 1961, pp. 226–233.

1964 *The completeness of logic with the added quantifier “there are uncountably many”*. **Fundamenta Mathematicae**, vol. 54 (1964), pp. 303–304.

1965a *A Löwenheim-Skolem theorem for cardinals far apart*. In: **The Theory of Models**, edited by J. W. Addison, L. A. Henkin and A. Tarski. North-Holland Publishing Company, 1965, pp. 390–401.

1965b *The Löwenheim-Skolem theorem*. In: **Logic, Methodology and Philosophy of Science**, edited by Y. Bar-Hillel. North-Holland Publishing Company, 1965, pp. 81–89.

1973a *A Borel invariantization*. **Bulletin of the American Mathematical Society**, vol. 79 (1973), pp. 1292–1295.

1973b *Descriptive set theory in $L_{\omega_1, \omega}$* . In: **Cambridge Summer School in Mathematical Logic**, edited by A. R. D. Mathias and H. Rogers. Springer-Verlag Lecture Notes in Mathematics, vol. 337 (1973), pp. 574–598.

1974 *Invariant sets in topology and logic*. **Fundamenta Mathematicae**, vol. 82 (1974), pp. 269–294.

See also: W. Craig and R. L. Vaught 1958; S. Feferman and R. L. Vaught 1959; R. Montague and R. L. Vaught 1959; M. D. Morley and R. L. Vaught 1962; A. Tarski and R. L. Vaught 1957.

VINNER, S.

- 1970a *Completeness and model completeness in Fuhrken's language*. **Notices of the American Mathematical Society**, vol. 17 (1970), p. 456. Abstract.
- 1970b *Completeness and model completeness in Fuhrken's language, II*. **Notices of the American Mathematical Society**, vol. 17 (1970), p. 964. Abstract.
- 1970c *Completeness and model completeness in Fuhrken's language, III*. **Notices of the American Mathematical Society**, vol. 17 (1970), p. 1077. Abstract.
- 1971 *Some results in a language with a generalized quantifier*. **Notices of the American Mathematical Society**, vol. 18 (1971), pp. 665-666. Abstract.
- 1972 *A generalization of Ehrenfeucht's game and some applications*. **Israel Journal of Mathematics**, vol. 12 (1972), pp. 279-298.
- 1975 *Model-completeness in a first-order language with a generalized quantifier*. **Pacific Journal of Mathematics**, vol. 56 (1975), pp. 265-273.

VOLGER, H.

- 1975 *Feferman-Vaught theorem revisited*. **Notices of the American Mathematical Society**, vol. 22 (1975), p. A-524. Abstract.
- 1976 *The Feferman-Vaught theorem revisited*. **Colloquium Mathematicum**, vol. 36 (1976), pp. 1-11.
- 1977 Σ_1^1 -relations of structures and interpolation for sentences. **Notices of the American Mathematical Society**, vol. 24 (1977), p. 392. Abstract.

VOPĚNKA, P. and HRBÁČEK, K.

- 1966 *On strongly measurable cardinals*. **Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques**, vol. 14 (1966), pp. 587-591.

WAGE, M. L.

See: Y. Benyamini, M. E. Rudin and M. L. Wage 1977.

WAINER, S. S.

- 1974 *Definability in L_{ω_1, ω_1} and recursion in 3E* . **Journal of Symbolic Logic**, vol. 39 (1974), p. 424. Abstract.

WALKER, E. A.

See: R. H. Hunter, M. M. Richter and E. A. Walker 1977.

WALKOE, W. J.

- 1969 *Finite partially-ordered quantification*. Doctoral Dissertation, University of Wisconsin, Madison, 1969, 61 pp.

- 1970 *Finite partially-ordered quantification*. **Journal of Symbolic Logic**, vol. 35 (1970), pp. 535-555.
- 1976 *A small step backwards*. **American Mathematical Monthly**, vol. 83 (1976), pp. 338-344.
See also: H. J. Keisler and W. J. Walkoe 1973.
- WANG, H.
- 1974 **From Mathematics to Philosophy**. Routledge and Kegan Paul, 1974, xiv+428 pp.
- WARFIELD, R. B.
- 1976 *Classification theory of Abelian groups, I: Balanced projectives*. **Transactions of the American Mathematical Society**, vol. 222 (1976), pp. 36-63.
- 1981 *Classification theory of Abelian groups, II: Local theory*. In: **Abelian Group Theory**, edited by R. Göbel and E. A. Walker. **Springer-Verlag Lecture Notes in Mathematics**, vol. 874 (1981), pp. 322-349.
- WASZKIEWICZ, J. and WEGLORZ, B.
- 1969 *On products of structures for generalized logics (with Polish and Russian summaries)*. **Studia Logica**, vol. 25 (1969), pp. 7-15.
- WEAVER, G. and WOODRING, K.
- 1975 *A uniform interpolation lemma in second order logic*. **Notices of the American Mathematical Society**, vol. 22 (1975), p. A647. Abstract.
- WEESE, M.
- 1972 *Zur Modellvollständigkeit und Entscheidbarkeit gewisser topologischer Räume (with Russian, English and French summaries)*. **Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe**, vol. 21 (1972), pp. 477-485.
- 1974 *Zur Entscheidbarkeit der Topologie der p -adischen Zahlkörper in Sprachen mit Mächtigkeitsquantoren*. Doctoral Dissertation, Humboldt-Universität, Berlin, 1974, 91 pp.
- 1976a *Entscheidbarkeit in speziellen uniformen Strukturen bezüglich Sprachen mit Mächtigkeitsquantoren*. **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 22 (1976), pp. 215-230.
- 1976b *Entscheidbarkeit der Theorie der Booleschen Algebren in Sprachen mit Mächtigkeitsquantoren (with Russian and English summaries)*. Habilitationsschrift, Humboldt-Universität, Berlin, 1976, vi+121 pp.
- 1976c *The universality of Boolean algebras with the Härtig quantifier*. In: **Set Theory and Hierarchy Theory: A Memorial Tribute to Andrzej Mostowski**, edited by W. Marek, M. Srebrny and A. Zarach. **Springer-Verlag Lecture Notes in Mathematics**, vol. 537 (1976), pp. 291-296.

- 1977a *The decidability of the theory of Boolean algebras with the quantifier "there exist infinitely many".* *Proceedings of the American Mathematical Society*, vol. 64 (1977), pp. 135-138.
- 1977b *The decidability of the theory of Boolean algebras with cardinality quantifiers (with Russian summary).* *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 25 (1977), pp. 93-97.
- 1977c *The undecidability of well-ordering with the Härtig quantifier (with Russian summary).* *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 25 (1977), pp. 89-91.
- 1980 *Generalized Ehrenfeucht games.* *Fundamenta Mathematicae*, vol. 109 (1980), pp. 103-112.
- 1981 *Decidability with respect to the Härtig and Rescher quantifiers.* *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 27 (1981), pp. 569-576.
- See also: A. Baudisch and M. Weese 1977; A. Baudisch, D. G. Seese, H.-P. Tuschik and M. Weese 1980; D. G. Seese and M. Weese 1977; D. G. Seese and M. Weese 1982; D. G. Seese, H.-P. Tuschik and M. Weese 1982.

WEGLORZ, B.

See: J. Waszkiewicz and B. Węglorz 1969.

WEHRFRITZ, B. A. F.

See: O. H. Kegel and B. A. F. Wehrfritz 1973.

WEIL, A.

- 1962 *Foundations of Algebraic Geometry. Revised Edition.* *Annals of Mathematics Studies*. Princeton University Press, vol. 29, 1962, xix+363 pp.

WEINSTEIN, J.

- 1968 (ω_1, ω) *properties of unions of models.* In: *The Syntax and Semantics of Infinitary Languages*, edited by K. J. Barwise. Springer-Verlag *Lecture Notes in Mathematics*, vol. 72 (1968), pp. 265-268.

WEISPFENNING, V. B.

- 1973 *Infinitary model-theoretic properties of κ -saturated models.* *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 19 (1973), pp. 97-109.

WESTERSTÅHL, D.

- 1976 *Some philosophical aspects of abstract model theory.* Technical Report, Institutionen för Filosofi Göteborgs Universitet, 1976, iii+109 pp.

WIMMERS, E. L.

- 1982 *Interactions between quantifiers and admissible sets*. Doctoral Dissertation, University of Wisconsin, Madison, 1982, 153 pp.

WOJCIECHOWSKA, A.

- 1969 *Generalized products for Q_α -languages*. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, vol. 17 (1969), pp. 337-339.

WOLTER, H.

- 1972 *Untersuchung über Algebren und formalisierte Sprachen höherer Stufen*. *Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Mathematisch-Naturwissenschaftliche Reihe*, vol. 21 (1972), pp. 487-495.

- 1973 *Eine Erweiterung der elementaren Prädikatenlogik, Anwendungen in der Arithmetik und anderen mathematischen Theorien*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 19 (1973), pp. 181-190.

- 1975a *Entscheidbarkeit der Arithmetik mit Addition und Ordnung in Logiken mit verallgemeinerten Quantoren*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 21 (1975), pp. 321-330.

- 1975b *Untersuchungen zu nichtelementaren Logiken*. Habilitationsschrift, Humboldt-Universität, Berlin, 1975, 117 pp.

See also: K. Hauschild and H. Wolter 1969; H. Herre and H. Wolter 1975; H. Herre and H. Wolter 1977; H. Herre and H. Wolter 1978; H. Herre and H. Wolter 1979a; H. Herre and H. Wolter 1979b; E. Herrmann and H. Wolter 1980.

WOLTER, H. and HERRE, H.

- 1977 *Decidability of the theory of linear order in L_{Q_κ} for regular ω_κ* . *Journal of Symbolic Logic*, vol. 42 (1977), p. 452. Abstract.

WOOD, C.

- 1972 *Forcing for infinitary languages*. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, vol. 18 (1972), pp. 385-402.

WOODRING, K.

See: G. Weaver and K. Woodring 1975.

WRIGHT, J. B.

See: J. W. Thatcher and J. B. Wright 1968.

YASUHARA, M.

- 1962 *On categorical PC classes of an extended first order language*. *Notices of the American Mathematical Society*, vol. 9 (1962), p. 323. Abstract.

- 1966a *An axiomatic system for first-order languages with an equi-cardinality quantifier.* **Journal of Symbolic Logic**, vol. 31 (1966), pp. 633–640.
- 1966b *Syntactical and semantical properties of generalized quantifiers.* **Journal of Symbolic Logic**, vol. 31 (1966), pp. 617–632.
- 1969 *Incompleteness of L_p languages.* **Fundamenta Mathematicae**, vol. 66 (1969), pp. 147–152.

ZAIONTZ, C.

- 1983 *Axiomatization of the monadic theory of ordinals $< \omega_2$.* **Zeitschrift für Mathematische Logik und Grundlagen der Mathematik**, vol. 29 (1983), pp. 337–356.

See also: J. R. Büchi and C. Zaiontz 1983.

ZAMJATIN, A. P.

- 1978 *A nonabelian variety of groups has an undecidable elementary theory.* **Algebra and Logic**, vol. 17 (1978), pp. 13–17.

ZERMELO, E.

- 1931 *Über Stufen der Quantifikation und die Logik des Unendlichen.* **Jahresbericht der Deutschen Mathematiker-Vereinigung**, vol. 41/2 (1931), pp. 85–88.
- 1935 *Grundlagen einer allgemeinen Theorie der mathematischen Satzsysteme.* **Fundamenta Mathematicae**, vol. 25 (1935), pp. 136–146.

ZIEGLER, M.

- 1976 *A language for topological structures which satisfies a Lindström-theorem.* **Bulletin of the American Mathematical Society**, vol. 82 (1976), pp. 568–570.
- 1978 *Definable bases of monotone systems.* In: **Logic Colloquium '77**, edited by A. J. Macintyre, L. Pacholski and J. B. Paris. North-Holland Publishing Company, 1978, pp. 297–311.
- 1980 *Algebraisch abgeschlossene Gruppen.* In: **Word Problems II. The Oxford Book**, edited by S. I. Adian, W. W. Boone and G. Higman. North-Holland Publishing Company, 1980, pp. 449–576.

See also: H. D. Ebbinghaus and M. Ziegler 1982; J. Flum and M. Ziegler 1980; J. A. Makowsky and M. Ziegler 1981; A. Prestel and M. Ziegler 1978; S. Shelah and M. Ziegler 1979.

ZUCKER, J. I.

- 1978 *The adequacy problem for classical logic.* **Journal of Philosophical Logic**, vol. 7 (1978), pp. 517–535.

