

## REFERENCES

- [Ba] K. BAKER, Primitive satisfaction and equational problems for lattices and other algebras, *Trans. Amer. Math. Soc.* 190 (1974), 125-150.
- [Bh] G. BIRKHOFF, On the combination of subalgebras, *Proc. Camb. Phil. Soc.* 29 (1933), 441-464.
- [Bi] G. BIRKHOFF, On the structure of abstract algebras, *Proc. Camb. Phil. Soc.* 31 (1935), 433-454.
- [Bk] G. BIRKHOFF, *Lattice Theory* (3rd. ed.), American Mathematical Society, Providence R.I. 1967.
- [Bl] W. BLASCHKE, *Kreis und Kugel* (2nd. ed.), de Gruyter, Berlin 1956.
- [Bo] T. BONNESEN and W. FENCHEL, *Theorie der konvexen Körper*, Chelsea, New York 1948.
- [Bu] N. BOURBAKI, *Algebra I*, Hermann, Paris 1973.
- [Cl] A.H. CLIFFORD, Semigroups admitting relative inverses, *Ann. Math.* 42 (1941), 1037-1049.
- [Co] R. COURANT and D. HILBERT, *Methoden der Mathematischen Physik I*, Springer, Berlin 1968.
- [Cu] R.T. CURTIS, A classification of Howard Eves' 'equihoops', Preprint, Bowdoin College, Brunswick 1979.
- [De] R. DEDEKIND, *Stetigkeit und Irrationale Zahlen*, Vieweg, Braunschweig 1872.
- [DG] J. DUDEK and E. GRACZYŃSKA, The lattice of varieties of algebras, *Bull. Acad. Polon. Sci. Sér. Sci. Math.* 29 (1981), 337-340, (MR 83a: 08013).
- [Et] I.M.H. ETHERINGTON, Non-associative arithmetics, *Proc. Roy. Soc. Edin.* 62 (1949), 442-453.
- [Fi] P.C. FISHBURN, *The Foundations of Expected Utility*, Reidel, Dordrecht 1982.
- [Fr] P. FREYD, Algebra valued functors in general and tensor products in particular, *Colloq. Math.* 14 (1966), 89-106.
- [Gr] B. GRÜNBAUM, *Convex Polytopes*, Interscience, London 1967.
- [G1] S.P. GUDDER, Convex structures and operational quantum mechanics, *Comm. Math. Phys.* 29 (1973), 249-264.
- [G2] S.P. GUDDER, Convexity and mixtures, *SIAM Review* 19 (1977), 221-240.

- [G3] S.P. GUDDER, Erratum: convexity and mixtures, *SIAM Review* 20 (1978), 837.
- [Ha] J. HADAMARD, Théorème sur les séries entières, *Acta Math.* 22 (1898), 55-63.
- [Hd] H. HADWIGER, Vorlesungen über Inhalt, Oberfläche und Isoperimetrie, Springer-Verlag, Grundlehren der mathematischen Wissenschaften 93, Berlin 1957.
- [H1] P. HALL, Some word-problems, *J. London Math. Soc.* 33 (1958), 482-496.
- [H±] K. HAŁKOWSKA, O pewnej, równościowo definiowalnej klasie algebr, *Zeszyty Naukowe W.S.P. Opole Ser. Matematyka* 19 (1976), 127-136.
- [HM] I.N. HERSTEIN and J. MILNOR, An axiomatic approach to measurable utility, *Econometrica* 21 (1953), 291-297.
- [Ho] J.M. HOWIE, An Introduction to Semigroup Theory, Academic Press, London 1976.
- [Ja] N. JACOBSON, Structure of Rings, Amer. Math. Soc., Providence R.I. 1964.
- [Jm] R.E. JAMISON, Functional representation of algebraic intervals, *Pac. J. Math.* 53 (1974), 399-423.
- [JS] J. JEFFREYS and B. SWIRLES JEFFREYS, Methods of Mathematical Physics, C.U.P., Cambridge 1950.
- [J1] J. JEŽEK and T. KEPKA, The lattice of varieties of commutative abelian distributive groupoids, *Alg. Univ.* 5 (1975), 225-237.
- [J2] J. JEŽEK and T. KEPKA, Free commutative idempotent abelian groupoids, *Acta Univ. Carolinae - Math. et Phys.* 17 (1976), 13-19.
- [K1] D.A. KLARNER, A ring of sequences generated by rational functions, *Amer. Math. Monthly* 74 (1967), 813-816.
- [La] G. LALLEMENT, Demi-groupes réguliers, *Ann. Mat. pura appl.* 77 (1967), 47-129.
- [Le] F.W. LAWVERE, Some algebraic problems in the context of functional semantics of algebraic theories, in Reports of the Midwest Category Seminar II (S. MAC LANE ed.), Springer Lecture Notes in Mathematics 61, Berlin 1968.
- [Lg] C. LÉGER and P. SOURY, Le convexe topologique des probabilités sur un espace topologique, *J. Math. pures et appl.* 50 (1971), 363-425.
- [LM] C.C. LINDNER and N.S. MENDELSON, Construction of n-cyclic quasi-groups and applications, *Aequ. Math.* 14 (1976), 111-121.

- [Lo] M. LOTHAIRE, Combinatorics on Words, Encyclopaedia of Mathematics and its Applications Vol. 17, Addison-Wesley, Reading Mass. 1983.
- [Ma] S. MAC LANE, Categories for the Working Mathematician, Springer Graduate Texts in Mathematics 5, Berlin 1971.
- [MB] S. MAC LANE and G. BIRKHOFF, Algebra, Macmillan, New York 1967.
- [Mc] A.I. MAL'CEV, K obščei teorii algebraičeskih sistem, Mat. Sb. N.S. 35 (77) (1954), 3-20; A.M.S. Transl. Ser. 2, Vol. 27, 125-142, Providence R.I. 1963.
- [Md] E.G. MANES, Algebraic Theories, Springer Graduate Texts in Mathematics 26, Berlin 1976.
- [Me] R. MCKENZIE and A. ROMANOWSKA, Varieties of  $\cdot$ -distributive bisemilattices, in Contributions to General Algebra (eds. H. Kautschitsch, W.B. Müller, W. Nöbauer), Johannes Heyn, Klagenfurt 1979.
- [Mg] K. MENGER, Eine elementare Bemerkung über die Struktur logischer Formeln, Ergebnisse eines mathematischen Kolloquiums, Heft 3 (1932), 22-23.
- [Mi] B. MIELNIK, Theory of Filters, Commun. Math. Phys. 15 (1969), 1-46.
- [Mt] B. MITCHELL, Theory of Categories, Academic Press, New York 1965.
- [Ne] W.D. NEUMANN, On the quasivariety of convex subsets of affine spaces, Arch. Math. 21 (1970), 11-16.
- [OS] F. OSTERMANN and J. SCHMIDT, Baryzentrischer Kalkül als axiomatische Grundlage der affinen Geometrie, J. reine angew. Math. 224 (1966), 44-57.
- [Pe] W. PEREMANS, Embedding of a distributive lattice into a Boolean algebra, Indag. Math. 60 (1957), 73-81.
- [Pł] J. PŁONKA, On a method of construction of abstract algebras, Fund. Math. 61 (1967), 183-189.
- [Po] J. PŁONKA, On free algebras and algebraic decompositions of algebras from some equational classes defined by regular equations, Alg. Univ. 1 (1971), 261-267.
- [Py] F. POYATOS, Generalización de un teorema de J.A. Green a álgebras universales, Rev. Mat. Hisp.-Amer. 40 (1980), 193-205.
- [Sc] K. SCHRÖTER, Axiomatisierung der Fregeschen Aussagenkalküle, Forschungen zur Logik und zur Grundlegung der exakten Wissenschaften, Neue Reihe Nr. 8, Leipzig 1943.

- [Sh] C.R. SHALLON, Non-finitely based binary algebras derived from lattices, Ph.D. Thesis, UCLA 1979.
- [Sl] D. SLEPIAN, Some comments on Fourier analysis, uncertainty, and modelling, SIAM Review 25 (1983), 379-393.
- [Sm] J.D.H. SMITH, Mal'cev Varieties, Springer Lecture Notes in Mathematics 554, Berlin 1976.
- [St] M.H. STONE, Postulates for the barycentric calculus, Ann. Mat. pura appl. 29 (1949), 25-30.
- [Sw] T. ŚWIRSZCZ, Monadic functors and categories of convex sets, Preprint 70, Institute of Mathematics, Polish Academy of Sciences, Warsaw 1975.
- [Ta] M. TAKASAKI, Abstractions of symmetric functions (Japanese), Tōhoku Math. J. 49 (1943), 143-207 (MR 9, p. 8).