

## Kenneth O. May—Bibliography

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This bibliography of the writings of Kenneth O. May is based on a file he kept. We have tried to confirm each item; those which have not been checked are indicated by a † preceding the item's number. An asterisk (\*) indicates a review. The following journal abbreviations are used here:

<i>AMM</i>	American Mathematical Monthly
<i>AMS Notices</i>	Notices of the American Mathematical Society
<i>Bull AMS</i>	Bulletin of the American Mathematical Society
<i>Econ</i>	Econometrica
<i>HM</i>	Historia Mathematica
<i>Math Mag</i>	Mathematics Magazine
<i>Math Teacher</i>	Mathematics Teacher
<i>MR</i>	Mathematical Reviews

Abstracts by May in *Historia Mathematica* have not been listed, nor have most of his numerous telegraphic reviews for the *American Mathematical Monthly*.

- †1. 1935 Conference process with Hobart Young. Student Institute of Pacific Relations, *Proceedings of the Ninth Annual Conference*. Berkeley, Calif.
- †2. 1937 Youth organizations and youth movements. Student Institute of Pacific Relations, *Proceedings of the Eleventh Annual Conference*. Berkeley, Calif.
- †3. 1939 with G. C. Evans. Stability of limited competition and cooperation. In *Reports of a mathematical colloquium*, 2nd ser., No. 1, pp. 3–15, Notre Dame, Ind.
- †4. 1942 Review of changes needed for effective mobilization of manpower. *People's World* (November).
- †\*5. 1943 Committee of NRC, Psychology for the fighting man. *People's World*.
- †6. 1945 It's easy to learn Russian. *People's World* (October 10).
- 7. 1946 *On the mathematical theory of employment*. Ph.D. thesis, University of California at Berkeley, typescript, 75 pp.
- \*8. 1947 Abba P. Lerner, *The economics of control. Science and Society* (Fall), 416–419.
- 9. The aggregation problem for a one-industry model. *Econ* 14:4 (October), 285–298; *MR* 8:7 (July–August 1947), 396.
- 10. 1947 Technological change as a functional variation. *Bull AMS* 53:1 (January), 64.
- 11. The aggregate effect of technological changes in a two-industry model. *Bull AMS* 53:1 (January), 64.
- 12. Probabilities of certain election results. *Bull AMS* 53:9 (September), 919.
- 13. Technological change and aggregation. *Econ* 15:1 (January), 51–63.

14. \*15. \*16. \*17. \*18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46.
- Dyamnic effects of technological change. *Econ* 15:2, 165-166.
- Avin H. Hasmen, Economic policy and full employment. *Science and Society* (Fall), 376-379.
- Charles D. Hodgeson (compiler), *Mathematical tables*, 8th ed. *Popular Astronomy* 55:9 (November) 515-516.
- The problem of aggregation. *Cowles Commission Papers*, New Series, No. 19 (Chicago); includes reprints of items 9 and 13.
- Variation of the probability of unfair election results. *Bull AMS* 54:3 (March), 288.
- Derivation of the normal form of the equation of the straight line. *AMM* 55:3 (March) 98-99.
- Probabilities of certain election results. *AMM* 55:4 (April), 203-209; *MR* 10:2 (February 1949) 131.
- Value and price of production: A note on Wimertitz solution. *Economic Journal* issue, 58:232, 596-599.
- J. V. Uspensky, *Theory of equations* (New York: McGraw-Hill, 1948). *Popular Astronomy* 57:1, 46-47.
- Value and productivity. *Econ* 17:1, 64-66.
- Structure and production. *Econ* 17:2, 186-187.
- D.J. Struik, *A concise history of mathematics*. *Science and Society* 13:4, 376-377.
- The straight line treated by translation and rotation. *Math Mag* 22:4 (March-April), 211.
- The structure of classical value theories. *Review of Economic Studies* 17:42, 60-69.
- A note on the pure theory of production. *Econ* 18:1, 56-59.
- Economics and technology: Production functions. *Econ* 18:3, 307-308.
- Harcace C. Levinson, *The science of chance* (New York: Reinhardt, 1950). *Popular Astronomy* 58 (April), 196.
- Transformations in elementary analytic geometry. *AMM* 57:3 (March), 219-220.
- Frank Yates, *Sampling methods for censuses and surveys* (London: Griffin, 1949).
- Heuristic discussion of problem 42. *Math Mag* 23:5 (May-June), 274-275.
- Paul M. Swezey (ed.), *Karl Marx and the close of his system* (1949). *Econ* 19:3, 354-355.
- Production relations in the railway industry. *Econ* 19:3, 328-329.
- Affied Still, *Borderlands of science* (New York: Philosophical Library, 1951). *Populat* 35:9, 500.
- M. E. Munroe, *Theory of probability* (1951). *AMM* 59:1 (January), 50.
- Derivation by rotation of the distance from a line to a point. *AMM* 59:3 (March), 181.
- Econometric models of the national economy. *Econ* 20:3, 491.
- A set of independent necessary and sufficient conditions for simple majority decision. *Econ* 20:4, 680-684; *MR* 14, 392.
- K. J. Arrow, *Social choice and individual values* (1951). *Science and Society* 16:2, 181.
- With Kirk McVoy, Simplification of rigorous limit proofs. In *Proceedings of the Elementary analysts*. New York: Wiley, 635 pp.

- International Congress of Mathematicians, 1950*, Vol. 1. Providence, R.I.: Amer. Math. Soc.
47. 1953 (Abstract) Note on the complete independence of the conditions for simple majority decision. *Bull AMS* 59:1 (January), 70–71.
48. A note on the complete independence of the conditions for simple majority decisions. *Econ* 21:1, 172–173; *MR* 14:8 (September), 778.
49. The intransitivity of individual preferences. *Econ* 21:3, 476.
- \*50. Gerhard Tintner, *Econometrics* (New York: Wiley, 1952). *AMM* 60:1 (January), 59–60.
51. Bounded models of the Euclidean plane. III. The use of condensed graphs in analytic geometry. *AMM* 60:8 (October), 595; *MR* 15:5 (May 1954), 460.
52. A kind of problem that effectively tests familiarity with functional relations. *AMM* 60:9 (November), 624.
- \*53. Gerhard Tintner, *Econometrics* (New York: Wiley, 1952); Lawrence R. Klein, *Econometrics* (Evanston, Ill.: Row, Peterson, 1953). *Science and Society* 17:4 (Fall), 379–380.
- \*54. Walter Rudin, *Principles of mathematical analysis* (1953). *Math Teacher* 46 (December), 610.
55. *Answer book, elementary analysis*. New York: Wiley, 56 pp.
56. 1954 The use of condensed graphs in analytic geometry. *AMM* 61:1 (January), 31–32.
57. Intransitivity, utility, and the aggregation of preference patterns. *Econ* 22:1, 1–13; *MR* 15:10 (November), 888.
- \*58. G. Birkhoff & S. MacLane, *A survey of modern algebra*, rev. ed. (New York: Macmillan Co., 1953). *Econ* 22:3, 391.
59. Comment on what is wrong with school arithmetic. *Math Teacher* 47:2, 92.
60. Which way precollege mathematics? *Math Teacher* 47 (May), 303–307.
61. 1955 (Abstract) Some simple but significant calculus problems in economics. *AMM* 62:2 (February), 147.
62. Pipe cleaners in calculus. *AMM* 62:8 (October), 619.
63. The calculus of absolute values. *AMM* 62:9 (November), 651–653.
- †64. Modern mathematics and the secondary school. *Minnesota Mathematics News Letter* (December).
65. What does ‘if’ mean? *Math Teacher* 48 (January), 10–12.
66. Letter to the Editor. *Math Teacher* 48 (May), 352.
67. 1957 The mathematics program at Carleton College. In *Report on a Conference on Undergraduate Mathematics Curricula Held at Hunter College, New York City, October 12–13, 1956*, pp. 6–10. New Haven, Conn.: Yale Univ. Press.
68. Letters to the Editors (on the history of mathematical economics). *American Scientist* 45:1, 22A–26A.
- \*69. R. L. Meek, *Studies in the labor theory of value* (New York: Intern. Publishers, 1956). *Science and Society* 21:3, 277–279.
- \*70. Oystein Ore, *Niels Henrik Abel, mathematician extraordinary* (1957). *Science* 126:3282 (22 November), 1070.
- \*71. 1958 Maurice Dobb, *On economic theory and socialism, collected papers* (1955). *Econ* 26:1 (January), 184–185.
- \*72. H. Theil, *Linear aggregation of economic revelations* (Contributions to Economic Analysis, Vol. VII, 1954). *Econ* 26:2, 337–338.
- \*73. Wm. Feller, *An introduction to probability theory and its applications*, 2nd ed., Vol. 1 (1957). *American Scientist* 46:2, 150A–151A.
74. Finding out about modern mathematics. *Math Teacher* 51:2 (February), 93–95.
75. Undergraduate research in mathematics. *AMM* 65:4 (April), 241–246.
76. The frequency of election victories without pluralities. *American Philosophical Society Year Book*, 342–344.

- \*77. H. A. Simon, Models of man, social and rational (1957). *Pi Mu Epsilon Journal* 2, 429-430.
78. J. G. Kemeny, L. J. Snell, & G. L. Thompson, *Introduction to finite mathematics* (1957). *Econ* 27:2, 324.
- \*79. Robert Dorfman, Paul A. Samuelson, & Robert M. Solow, *Linear programming and economic analysis* (1958). *Pi Mu Epsilon Journal* 23:5 (March), 5-7.
80. \*81. Henry Van Engen, Relations and functions. In *The growth of mathematical ideas, grades K-12*, Chap. 3. 24th Yearbook of the National Council of Teachers of Mathematics, Washington, D.C.
82. 83. R. R. Bush & W. K. Estes (eds.), *Studies of mathematical learning theory* (1959).
84. Klein, S. *AAMM* 67:4 (January), 221.
85. Klein, J. G. Kemeny, *A philosopher looks at science* (1959). *AMM* 67:5 (May), 488.
86. R. D. Luce, *Fundamental choice behavior, a theoretical analysis* (New York: Wiley, 1959). *Bull AMS* 66:4 (July), 259-260.
87. Marshall Clegg (ed.), *Critical problems in the history of science* (Madison: Univ. Wisconsin Press, 1959). *MR* 21:10 (November), 1171, #6314.
88. B. L. Schwartz, Solution of a set of games, *AMM* 66:8 (October), 693-701. *MR* 22:5A (May), 618, #3653.
89. R. W. Sloan, *An introduction to modern mathematics* (Englewood Cliffs, N.J.), 21:9 (October), 1164, #6289.
90. Klein, I., 1-13; *Y*ork: Prentice-Hall, 1960. *MR* 21:10 (November), 1171, #6314.
91. Klein, 2. Martin Dyck, *Novelties and mathematics* (North Carolina, Studies in Germanic Languages and Literature, No. 27; Chapel Hill: Univ. of North Carolina Press, 1960). *MR* 22:1A (January), 1, #5.
92. A. P. Youskevitch, Blaise Pascal as a scientist, *Voprosy Istochnika Estestvoznaniya i Nauk* 2 (1960), 183-195. *MR* 22:9A (September), 1341, #7930.
93. Klein, N. T. Grindeman, Geometric probability and the number  $\pi$ , *Scripria Mathematica Tschirnhi 7* (1959), 75-87 [in Russian]. *MR* 22:5A (May), 618, #3653.
94. Klein, Ann Cutler & Rudolph McShane, *The Tschirnhaus speed system of basic mathematics* (New York: Doubleday, 1960). *MR* 22:9A (September), 1340, #7920.
95. Klein, Eugenie Galanter & George A. Miller, Some comments on stochastic models and psychological theories. In *Mathematical methods in the sciences* (Stanford, Calif. : Stanford Univ. Press, 1959). *MR* 22:9A (September), 1574, #9328.
96. Klein, M. Ya. Vygodskii, *Handbook of higher mathematics*, 3th ed., Gosudarstvennoe Izdatel'stvo Fizicheskoi-Matematicheskoi Literatury (Moscow, 1961, 783 pp.). *MR* 22:11A (November), 1851, #10887.
97. Klein, Friedrich Huber, Daniel Bernoulli (1700-1782) als Physiologe und Statistiker (Basel/Stuttgart, 1959). *MR* 22:12A (December), 2052, #12035.
98. Klein, Letter to the Editor. *AMS Notices* 8:2 (April), 131-132.
99. Klein, Saar Trifunovic, *Alain M. Turing* (1959). *AMM* 68:8 (October), 827.
100. Klein, Maurice Godfrey, *Mathematics generates surprises, synthesis eliminates* (Paris: Ad ed.), 1962.
101. Klein, Giulio Andreoli, Equazioni e sistemi differenziali, operatori funzionali, funzioni nelle algebre [in Italian], *Giornale di Matematiche di Bologna* 5 (1958), 1-65. *MR* 23:1A (January), 64, #A375.
102. Klein, H. A. Freudenthal, *A history of mathematics* (New York, 1961). *MR* 23A:5A (May), 581-582, #A3046.

- \*104. A. Rényi, On connected graphs, I, *Magyar Tudományos Akadémie Matematikai Kutató Intézeténél Közleményi* 4 (1959), 385–388. *MR* 23:6A (June), 790, #A4136.
- \*105. B. V. Gnedenko & I. B. Pogrebysskii, Sur la valeur d'histoire des mathématiques pour les mathématiques et les autres sciences [in Russian], *Istoriko-Matematicheskie Issledovaniya* 11 (1958) 441–460. *MR* 23:6A (June), 691, #A3618.
- \*106. H. W. Turnbull, *The great mathematicians* (New York: New York Univ. Press, 1961, 141 pp.). *MR* 24:1A (July), 4, #A23.
- \*107. P. S. Aleksandrov, Mathematics as a science [in Russian], *Izvestiya Akademii Pedagogicheskikh Nauk RSFSR*, No. 92 (1958), 5–36. *MR* 24:2A (August), 126, #A653.
- \*108. V. I. Lysenko, Les travaux polygonométriques en russie en XVIIIème siècle [in Russian], *Istoriko-Matematicheskie Issledovaniya* 12 (1959), 161–178. *MR* 24:3A (September), 221, #1192.
- \*109. Paul Lorenzen, Constructive and axiomatic mathematics, *Synthese* 12 (1960), 114–119. *MR* 24:4A (October), 333, #A1801.
- \*110. Petre Botezatu, Les raisonnements transitifs, *Analele Universitatii C. I. Parhon Bucuresti Seria Acta Logica* 3:1 (1960), 59–81. *MR* 24:4A (October), 334, #A1810.
- \*111. Herbert Meschkowski, *Dankweisen grosser Mathematiker: Ein weg zur Geschichte der Mathematik* (Braunschweig: Vieweg, 1961, viii + 95 pp.). *MR* 24:6A (December), 571, #A3051.
- \*112. Michael Dummet & Robin Farquharson, Stability in voting, *Econ* 29 (1961), 33–34. *MR* 24:6B (December), 408, #B2495.
113. (edited with Seymour Schuster) *Undergraduate research in mathematics*. Report of a conference in Northfield, Minn. (Carleton Duplicating Service, 95 pp.).
114. Heretical thoughts on undergraduate research. In *Undergraduate research in mathematics*, pp. 76–80.
- \*115. 1963 M. Ya. Vygodskii, L'origine de la règle de deux fausses positions, [in Russian], *Istoriko-Matematicheske Issledovaniya* 13 (1960) 231–252. *MR* 25:2 (February), 221, #1091.
116. What should a Carleton graduate be like? *Faculty Long Range Planning Committee Bulletin* 1:3 (June), 8–9.
117. Tradition and fact on the origin of the four color conjecture. *AMM* 70:2 (February), 239.
118. with Poul Anderson, An interesting isomorphism. *AMM* 70:3 (March), 319–322.
- \*119. 1964 A. Ya. Khinchin, *Continued fractions* (Chicago, 1964). *Science* (July 31), 478.
- \*120. R. W. Marks, *The new mathematics dictionary and handbook* (New York: Bantam, 1964). *Science* (December 25), 1670.
- \*121. R. A. Carman, A programmed introduction to vectors (New York: Wiley, 1963). *AMM* 71:7 (September), 811.
122. ↗ Independence and quantification. *AMM* 71:8 (October), 957.
123. (edited), B. Gelbaum & J. M. H. Olmsted, *Counter-examples in analysis*. San Francisco: Holden-Day.
124. (edited), Herbert Meschkowski, *Ways of thought of great mathematicians*, translated by John Dyer-Bennet. San Francisco: Mathesis Series, Holden-Day.
125. 1965 ↗ The risks of self-evaluation (quote from J. J. Sylvester). *AMM* 72:4 (April), 314.
126. A comment on measures of productivity of mathematics departments. *AMM* 72:6 (June–July), 664.
- \*127. P. Horst, *Matrix algebra for social scientists* (1963). *Econ* 33, 256–257.
128. ↗ Letter to the Editor on indexing of libraries. *AMS Notices* 12:3 (April), 296.
129. An historical profile of determinants. *AMS Notices* 12:3 (April), 361.
130. ↗ The origin of the four-color conjecture. *Isis* 56:185, 346–348; reprinted in *Math Teacher* 60 (1967), 516–519.
131. Derivatives of determinants and other multilinear functions. *Math Mag* 38, 307–308.

132. Reprints: Return envelope (Letter), *Science* 150, 827.
133. Logarithms. Encyclopaedia Britannica, Vol. 14, pp. 206–209.
134. (edited), Herbert Meschkowski, *Solutions of mathematical thought*, translated by Jane H. Gayl, San Francisco: Mathesis Series, Holden-Day, 157 pp.
135. Programming learning and mathematics education, A Committee on Educational Media Study C.E.M., Mathematical Association of America, 24 pp.
136. (edited), Abraham Robinson, *Numbers and ideals*, San Francisco: Holden-Day, 106 pp.
137. Discussion of St. John's math program, In *Proceedings of the Colloquium on the Liberal Arts Curriculum: Structure and content*, pp. 33–42. St. Mary's College, March 25–27, 1965.
138. J. Nas & H. L. Schmid (eds.), *Mathematical Works* (Stuttgart: Teubner, 1961). AMM 73:2 (February), 216.
139. The impossibility of a division algebra of vectors in three dimensional space, AMM 73:3 (March), 289–291.
140. Etiope Carruccio, *Mathematics and logic in history and contemporay thought*, 73:3 (July), 687–688.
141. Mathematics articles in the *Encyclopaedia Britannica* (Chicago, 1965). AMM 73:6 (June–July), 687–688.
142. Problem E1917. AMM 73:8 (October), 891.
143. Programming and automation, *Math Teacher* 59, 444–454; digested in *Education Digest* (October), 38–41.
144. B. V. Gnedenko et al., Problems in the history of mathematics in the modern period, *Istoriko-Matematicheskie Issledovaniya*, 15 (1963), 73–96. MR 31:4 (April).
145. F. D. Kramer, Integration methods of J. Wallis, *Istoriko-Matematicheskije Issle-588–589, #3299.*
146. D. V. Ionescu, A theorem on systems of linear equations, *Studia Universitatis Babes-Bolyai Series I Mathematica Physica* 1960, No. 1, 97–106. MR 32:2 (Au-  
gust), 207, #1208.
147. B. V. Gnedenko, I. B. Podgrabskii, I. Z. Stokalo, & A. P. Juskevici, Problems of the history of mathematics in Russia and the U.S.S.R. And works in this area during the period 1956–1961, *Istoriko-Matematicheskie Issledovaniya*, 15 (1963), 11–36.
148. F. D. Kramer, Vector analysis at the end of the 18th and beginning of the 19th century, *Istoriko-Matematicheskie Issledovaniya*, 15 (1963), #3983.
149. R. I. Galenkov, Mathematics in the Leninograd (St. Petersburg) University in the 19th century [in Russia], *Istoriko-Matematicheskije Issledovaniya* 14 (1961), 355–  
392. MR 32:3 (November), 923, #5481.
150. F. A. Medvedev, A. M. Lyapunov's contribution to the theory of the Stability of the Motion [in Russia], *Istoriko-Matematicheskije Issledovaniya* 14 (1961), 211–234.
151. Exponentially growth of the mathematical literature, *AMS Notices* 13:5 (August), 579.
152. Frenchicci: Holden-Day, 194 pp. [?] biography reprinted with portrait and introduction, with a biographical essay, Henry Lebesgue, *Measure and the integral*. San  
(edited, 1975).
153. I. Cerkalova, Composite ratios in Wallis, Jaroslav Gosudarstvennyi Pedagogi-  
tory comment by A. E. Loneschi, 1975].
154. Four articles on M. V. Ostrogradskii, *Istoriko-Matematicheskije Issledovaniya* 16, MR 33:3 (March) 442, #2502.

- \*155. V. V. Lihin, Euler's and Lagrange's investigations in the theory of finite differences. In *History and methodology of natural science*, Vol. 5, *Mathematics*, pp. 35–44 (Izdat Moscow University, Moscow, 1966). *MR* 34:1 (July), 2, #9. \*178.
- \*156. Henri Lebesgue, *Measure and the integral* (San Francisco: Holden-Day, 1966). *MR* 34:2 (August), 258, #1474. 179.
- \*157. B. L. Van der Waerden, Die Algebra seit Galois, *Jahresbericht der Deutschen Mathematiker-Vereinigung* 68 (1966), Abt. 1, 155–156. *MR* 34:3 (September), 425, #2414. \*180.
- \*158. V. M. Kuznecov, From the history of the origins of the general theory of automorphic functions [in Russian]. In *History and methodology of natural science*, Vol. 5, *Mathematics*, pp. 185–191 (Moscow, 1966). *MR* 34:3 (September), 513, #2873. \*181.
- \*159. A. A. Kiselev, Certain questions of the theory of numbers in the correspondence between Euler and Goldbach [in Russian]. In *History and methodology of natural science*, Vol. 5, *Mathematics*, pp. 31–34 (Izdat Moscow University, Moscow, 1966). *MR* 34:5 (November), 1014, #5617. \*182.
- \*160. F. A. Medvedev, Dedekind's contributions to the theory of sets [in Russian]. In *History and methodology of natural science*, Vol. 5, *Mathematics*, pp. 192–199 (Moscow, 1966). *MR* 34:5 (November), 1015, #5622. \*183.
161. ➤ Mathematics and art. *Math Teacher* 60 (October), 568–572. \*184.
162. editor with C. B. Allendoerfer and E. A. Cameron, Fiftieth Anniversary Issue. *AMM* 74:1 (January), 2 parts. \*185.
- \*163. P. C. Rosenbloom & S. Schuster, *Prelude to analysis* (Englewood Cliffs, N.J.: Prentice-Hall, 1966). *AMM* 74:5 (May), 615–616. \*186.
164. Letter to the Editor. *AMS Notices* 14:2 (February), 213. \*187.
- \*165. S. Bochner, *The role of mathematics in the rise of science* (Princeton, N.J.: Princeton Univ. Press, 1966). *American Scientist* 55:2 (June), 192A. \*188.
- \*166. T. L. Saaty (ed.), *Lectures on modern math I* (New York: Wiley, 1963). *Scripta Mathematica* 28:1, 65–66. \*189.
167. (edited), *Lectures on calculus*. San Francisco: Holden-Day, 194 pp. \*190.
168. (edited), Andre Lichnerowicz, *Linear algebra and analysis*, translated by Alison Johnson. San Francisco: Holden-Day. \*191.
169. Who killed determinants? 1 hour. Produced by Individual Lectures Project (M.A.A. with support from National Science Foundation), distributed by Modern Learning Aids. \*192.
170. 1968 Undergraduate research: Some conclusions. *AMM* 75:1 (January), 70–74. \*193.
- \*171. Francois Lasserre, *The birth of mathematics in the age of Plato* (Larchmont, N.Y.: American Research Council, 1964). *Math Teacher* 61 (February), 190. \*194.
- \*172. ➤ W. R. Hamilton, *The mathematical papers of Sir William Rowan Hamilton*, Vol. 3, *Algebra* (London/New York: Cambridge Univ. Press, 1967). *MR* 35:4 (April), 738–739, #4081. \*195.
- \*173. A. P. Juškevič, On the development of the concept of a function, *Istoriko-Matematicheskie Issledovaniya* 17 (1966), 123–150 [in Russian]. *MR* 35:5 (May), 978, #5277. \*196.
- \*174. A. P. Juškevič, On the history of the integral theorem of M. V. Ostrogradskii, *Voprosy Istorii Estestvoznaniya i Tekhniki*, Vyp 18 (1965), 103–107 [in Russian]. *MR* 36:2 (August), 271, #1271. \*198.
- \*175. N. I. Simonov, On the development of the theory of linear differential equations from Euler to Peano, *Istoriko-Matematicheskie Issledovaniya* 17 (1966), 333–338 [in Russian]. *MR* 36:2 (August), 271, #1272. \*199.
- \*176. A. F. Lapko & L. A. Ljusternik, From the history of Soviet mathematics, I, *Uspekhi Matematicheskikh Nauk* 22 (1967) (6), 13–140 [in Russian]. *MR* 36:2 (August), 271, #1274. \*200.
- \*177. A. P. Juškevič, P. L. Cebyshev and the French Academy of Sciences, *Voprosy*

- of finite differences, Vol. 5, #13, 1973. \*181. 1980. 1969. F. D. Kramer. From the universal arithmetic of Newton to the quaternion algebra of Hamilton [in Russian], *Izvestiye Matematicheskogo Instituta Steklov* 17 (1966), 309-316. MR 37:2 (February), 231, #121. N. Rashevsky, *Looking at history through mathematics* (1968). MR 37:6 (June), 1149-1150, #6145. H. Ogirova, Les lettres de A. Markoff, 1885-1889, *Revue d'histoire des Sciences et des Lettres Applications* 20 (1967), 2-22. MR 38:1 (July), 4, #15. K. R. Biemerann, K. Weierstraß and A. V. Humboldt, *Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin* 8 (1966), 33-37. MR 38:5 (No. 992, #5555). An appeal for preservation of archival materials by the Advisory Committee on History of the Mathematical Sciences. *AMS Notices* 16:6 (October), 888-889; *AMM* 77:1 (January), 110-112; also in other journals. M. Kac & S. Ulam, *Mathematics and logic*. Lisi 60, 112-113. 1963). *Scripta Mathematica* 39. (From Proceedings of the Colloquium on the Liberal Arts Curriculum: Structure and Control, St. Mary's College, March 25-27, 1965.) What is mathematics? A liberal art by Samuel S. Kutter. *College* 21:2 (July), pp. 641-642. Philadelphia, 1969. 1991. 1970. Discussion of mathematics as a liberal art by Samuel S. Kutter. *College* 21:2 (July), pp. 641-642. Philadelphia, 1969. Report on Grant No. 4069—Penrose Fund (1965), \$1,500. Card index of titles on the history of mathematics. *The American Philosophical Society Year Book* 1968, 1992. 1970. Discussion of mathematics as a liberal art by Samuel S. Kutter. *College* 21:2 (July), pp. 641-642. Philadelphia, 1969. Editorial: Book prices. *AMM* 77:9 (November), 1021-1022. Editorial: Book review: *What is mathematics?* [in film]. *AMM* 77:2 (February), 213. What is mathematics and how do we teach it? [in film]. *AMM* 77:10 (December), 1120-1121. Editorial: Book reviews. *AMM* 77:10 (December), 1120-1121. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000.

4. Irish triumph [Hamilton]  
 5. Lewis Carroll, Alice and Dodgson  
 6. Peirce: Genius or crank  
 7. Pisan rebel [Galileo]  
 8. Prince of mathematicians [Gauss]  
 9. Ramanujan  
 10. Russell: The rebel aristocrat  
 (video cassettes, 30 minutes each)
- \*201. Ju. M. Gaiduk & I. A. Naumov, History of the relations between the mathematical cultures of Czechoslovakia and the USSR, *Tbilisi Sahelmcipho Universiteti Šromebi Mekhanika-Matematikis Mecnierebatha Seria* 129 (1968), 411–428. *MR* 40:5 (November), 992, #5399.
- \*202. R. L. Wilder, *Evolution of mathematical concepts. An elementary study* (1968). *MR* 40:6 (December), 1279–1280, #7065.
- \*203. 1971 V. A. Dobrovolskii & F. D. Kramar, The mechanical and algebraic trends in the formation of the vector analysis, *Voprosy Istorri Estestvoznaniya i Tekhniki* 3 (28) (1969), 25–29. *MR* 41:2 (February), 266, #1482.
- \*204. L. E. Maistrov, The fundamental stages in the development of the theory of probability. In *XI<sup>e</sup> Congrès International d'Histoire des Sciences, Actes* (1965), Sect. III, pp. 294–297 (Wroclaw, 1968). *MR* 41:3 (March), 588, #3213.
- \*205. A. A. Kiselev & E. P. Ozigova, On the history of the elementary method in prime number theory [in Russian]. In *XI<sup>e</sup> Congrès International d'Histoire des Sciences, Actes* (1965), Sect. III, pp. 244–249 (Wroclaw, 1968). *MR* 41:3 (March), 590, #3223.
- \*206. I. Grattan-Guiness, An unpublished paper by Georg Cantor: Principien einer Theorie der Ordnungstypen, erste Mitteilung, *Acta Mathematica* 124 (1970), 65–107. *MR* 41:4 (April), 948–949, #5171.
- \*207. Ioan Bîtea, On the evolution of the integral calculus, *Analele Universitatii din Timisoara Seria Stiinte Matematica* 7 (1969), 17–42. *MR* 42:1 (July), 5, #21 (with Stephen Regoczei).
- \*208. J. J. Burckhardt, *Lesebuch zur Mathematik. Quellen von Euklid bis Heute* (Lucerne/Stuttgart, 1968, 79 pp.). *MR* 42:2 (August), 290–291, #1634.
- \*209. Cornelius Lanczos, *Space through the ages. The evolution of geometrical ideas from Pythagoras to Hilbert and Einstein* (London/New York: Academic Press, 1970, 320 pp.). *MR* 42:5 (November), 1042, #5747.
- \*210. I. B. Pogrebysskii, Mathematical structures and physical theories: From Archimedes to Lagrange, *Voprosy Istorii Estestvoznaniya i Tekhniki* 2 (31) (1970), 24–49. *MR* 42:5 (November), 1043, #5749.
- \*211. ➤ Teachers should know about mathematics. *International Journal of Mathematics Education in Science and Technology* 2, 99–100.
- \*212. Paul Levy, *Quelques aspects de la pensée d'un mathématicien* (Paris, 1970, 222 pp.). *Isis* 62:213 (September), 415–416.
- \*213. A. P. Yushkevich, *Istoriya matematiki v Rossii do 1917 goda* (1968). *History of Science* 10, 122–127.
214. Problems of information retrieval in mathematics. In *Proceedings of the Canadian Mathematical Congress* (Lakehead University, June 17, 1971), pp. 477–484. Winnipeg: University of Manitoba.
- \*215. A. G. Kästner, *Geschichte der Mathematik*, 4 vols. (Olms, 1970). *AMM* 78:5 (May), 570–571.
- \*216. I. Barrow, *The usefulness of mathematical learning* (Frank Cass, 1970). *AMM* 78:5 (May), 571.
- \*217. G. S. Carr, *Formulas and theorems in pure mathematics* (New York: Chelsea, 1970). *AMM* 78:5 (May), 573.
- \*218. ➤ Francois Viète, *Opera mathematica* (Olms), 604 pp. (reprint of 1646 Leiden with

with  
seas,  
#179.  
literatura matematyczna: Jef wzrost i jaskosc. Roczniki Polskiego Towarzystwa Matematycznego, Seria II, Wydawnosci Matematyczne 14, 93–105, translation of 109, translation of #211.  
#244. Towarzystwa Matematycznego, Seria II, Wydawnosci Matematyczne 14, 107–  
#243. Izby samicznych Matematycznych nauczycielow? Roczniki Polskiego MR 43:2 (February), 336–337, #1806.  
#242. E. A. Medvedev, Richard Dedekind [in Russian]. In: History and methodology of natural science, Vol. 9, Mechanics, mathematics, pp. 169–177 (Moscow, 1970).  
#241. C. Fritsch (ed.), Opera omnia: Johnannes Kepler. AMM 79:6 (June), 684.  
#240. J. R. Harris, The Legacy of Egypt, 2nd ed. (Oxford, 1971). AMM 79:5 (May), 540.  
#239. Eduard Winter, Bernhard Bolzano: Ein Lebensbild (Friedrich Frommann Verlag, 1969). AMM 79:4 (April), 415.  
#238. Solomon Gandz, Studies in Hebrew astronomy and mathematics (Kiev, 1970). AMM 79:3 (March), 318.  
#237. Letter to the Editor (regarding oldest sons). AMS Notices 19:4 (June), 207.  
#236. C. Nauk, Historie des logarithm: De Neper a Euler, Tome II (Bianchardi, 1971). AMM 79:2 (February), 203.  
#235. P. Beckmann, A history of pi, 2nd ed. (Golem, 1971). AMM 79:2 (February), 203.  
#234. D. T. Whiteside (ed.), The mathematical papers of Isaac Newton, . . ., 2nd ed., rev. (London: Dawson, 1966). AMM 79:2 (February), 203.  
#233. A bibliography of the works of Sir Isaac Newton . . ., 2nd ed., rev. (London: 202.  
#232. H. Weber, Die Lehre von den Kettenlinien im Altertum (Olms, 1966). AMM 79:2 (February), 202.  
#231. C. Gillispie, Lazarus Carnot (Princeton, NJ.: Princeton Univ. Press, Bianchardi, 1971). AMM 79:2 (February), 202.  
#230. R. Argand, Essai sur une manière de représenter les quantités imaginaires (February), 202.  
#229. L. Fejér, Gesammelte Arbeiten, 2 vols. (Basel: Birkhäuser, 1970). AMM 79:2 (February), 202.  
#228. H. Weber, Festscrift (New York: Chelsea, 1971). AMM 79:2 (February), 201.  
#227. H. Weber, Festscrift (New York: Chelsea, 1971). AMM 79:2 (February), 201.  
#226. Histoire des Sciences, Actes, Tome IV. AMM 79:2 (February), 201.  
#225. Science et phiosophie, XVII, et XVIII, séries, XII Congrès International d'His-  
toire des Sciences, Actes, Tome IIIA. AMM 79:2 (February), 201.  
#224. Science et phiosophie, XVIII, et XIX, séries, XII Congrès International d'His-  
toire des Sciences, Actes, Tome IIIA. AMM 79:2 (February), 201.  
#223. Gallié Seidenreich, a good dangling problem. AMM 79:1 (January), 67–69.  
#222. 1973 Mathematics, 3 vols. (total of 5 numbers).  
#221. C. A. Valson, La vie et les travaux du Baron Cauchy (Bianchardi, 1970, 210 pp.).  
#220. Lazare Carnot, Réflexions sur la mécanique physique du calcul infinitesimal (Bianchardi, 1970, 167 pp. and 8-page biographical note by Marcel Maurot). AMM 78:7 (Septem-  
ber), 815–816.  
#219. Siegmund Günther, Peter und Philipp Apian, Zwei deutsche Mathematiker und Kartographen (Meridian, 1967). AMM 78:7 (September), 815.  
#218. 30-page introduction and 10-page index by J. E. Hoffman. AMM 78:7 (September), 815.

245. ▷ Carl Friedrich Gauss. *Dictionary of scientific biography*, Vol. 5, pp. 298–315. New York: Scribner's.
246. Teachers should know about mathematics. In *Seminar on Graduate Training of Mathematics Teachers* (1969), pp. 19–21. Canadian Mathematical Congress.
247. Mathematics and art. In *Seminar on Graduate Training of Mathematics Teachers* (1969), pp. 23–30. Canadian Mathematical Congress.
248. Panel discussion on teacher training. In *Seminar on Graduate Training of Mathematics Teachers* (1969), pp. 93–110. Canadian Mathematical Congress.
249. (edited) *The Mathematical Association of America, its first fifty years*. Washington, D.C.: Math. Assoc. Amer., 172 pp.
250. edited with Constance Moore Gardner, *World directory of historians of mathematics*. Toronto: Historia Mathematica, 44 pp. Reviewed in *MR* 52:6 (December), 1857, #13101.
251. 1973 with Henry S. Tropp, Some algebraic equations do not have exactly  $N$  roots. *Math Teacher* 66:2 (February), 179–182.
- \*252. L. I. Karaseva, The German school of mathematical education according to the scientific methodology of F. Klein, *Moskovskii Oblastnoi Pedagogicheskii Institut Uchenye Zapiski* 282, 250–270. *MR* 45:5 (May), 1212, #6558.
- \*253. V. N. Sapkina, On the 100th anniversary of the mathematical association of the leading British mathematics teachers, *Moskovskii Oblastnoi Pedagogicheskii Institut Uchenye Zapiski* 282 (1970), 72–82. *MR* 45:5 (May), 1212, #6559.
- \*254. V. S. Safronov, O. Ju Šmidt and cosmogony, *Ukrainskii Matematicheskii Zhurnal* 23 (1971), 707–716. *MR* 45:5 (May), 1212, #6562.
- \*255. Alpinolo Natucci, L'evoluzione dell'insegnamento della matematica elementare nell'ultimo secolo, *Giornale di Matematiche di Battaglini* (6) 3 (93) (1965/1967), 160–172. *MR* 45:6 (June), 1539, #8488.
- \*256. G. Ju. Stepanov, The theory of hydrodynamic lattices in the works of N. E. Zukovskii and S. A. Čaplygin and its subsequent development, *Izvestiya Akademii Nauk SSSR Seriya Mekhanika Zhidkosti i Gaza*, No. 2 (1972), 3–8. *MR* 46:1 (July), 2, #8.
- \*257. Marie Goldstein, The historical development of group theoretical ideas in connection with Euclid's axiom of congruence, *Notre Dame Journal of Formal Logic* 13 (1972), 331–349. *MR* 46:3 (September), 616–617, #3601.
- †258. Discovering and constructing logarithms and a slide rule by simple arithmetic. *International Journal of Mathematics Education in Science and Technology* 4, 137–141.
- †259. Galileo sequences as an undergraduate research problem. *Journal of Undergraduate Mathematics* 5, 49.
260. Note on the bicycle problem. *Math Mag* 46, 161–163.
- \*261. F. Le Lionnais (ed.), *Great currents of mathematical thought* (New York: Dover, 1971). *AMM* 80:7 (September), 825–826 (with Stephen B. Regoczei).
262. *Bibliography and research manual of the history of mathematics*. Toronto: Univ. of Toronto Press, 828 pp.
263. (edited with Catherine Meckes), *Indexed directory of the Canadian Society for the Study of the History and Philosophy of Science/SCHPS*. Toronto: Univ. of Toronto Press, 18 pp.
264. 1974 Congratulations to the thousand! (editorial). *HM* 1, 1–2.
265. Should we be mathematicians, historians of science, historians or generalists? *HM* 1 (May), 127–128.
- \*266. Gottlob Frege, Review of Dr. E. Husserl's Philosophy of arithmetic, *Mind* 81 (1972), 321–337. *MR* 47:2 (February), 273, #1564.
267. ↗ History in the mathematics curriculum. *AMM* 81:8 (October), 899–901.
268. ↗ The preservation of archival materials. A renewed appeal by the Conference Board

Report

†M1.

M2.

†M3.

†M4.

†M5.

†M6.

†M7.

†M8.

†M9.

- P., 298-315. Training of *Teachers*.  
of the Mathematical Sciences Advisory Committee on History. *AMS Notices* 21:4 (June), 187.
- \*269. 1975 *Training of*  
Mark Kac, Hugo Steinhaus—A remembrance and tribute, *AMM* 81 (1974), 572-581. MR 49:1 (January), 4, #16.
270. \*1970 *Claudia Zaslavsky, African Counts* (Boston: Prindle, Weber & Schmidt, 1973, 338 pp.). *Journal of Asian and African Studies* 10:1-2 (January-April), 108.
271. 1971 Report of the Committee on the History and Philosophy of Mathematics to the Division of History of the International Union for the History and Philosophy of Science. *HM* 2 (February), 77-82.
272. 1971 Report of the Committee on the History and Philosophy of Mathematics to the Division of History of the International Union for the History and Philosophy of Science. *HM* 2 (February), 185-187.
273. 1971 *Historiographical Vices. I. Logical Attribution*. *HM* 2 (May), 185-187.
274. 1971 *Historiographical Vices. II. Priority Chasing*. *HM* 2 (August), 315-317.
275. 1971 Letter to the Editor. *AMS Notices* 22:4 (June), 185.
276. 1971 P. Weiner (ed.), *Dictionnaire of the history of ideas*, 4 vols. (New York: Scribner's, 1968-1971). *AMM* 82:3 (March), 315.
277. 1971 D. E. Knuth, *Surreal numbers* (Reading, Mass.: Addison-Wesley, 1974). *AMM* 82:10 (December), 1023-1024; reprinted in *Association for Women in Mathematics Newsletter* 6:2 (1976), 8-10.
278. 1976 Characteristics of key ideas in science. A report on research funded under contract by the Ministry of Education of Ontario, Toronto, typescript, 47 pp.
279. 1976 Quotations from policy (editorial). *HM* 3 (February), 1-4.
280. 1976 To Dick J. Strik at eighty-two (editorial). *HM* 3 (May), 133.
281. 1977 Reorganization. Shokichi Iyanaga and Yukio Kawauchi (eds.), *Encyclopedic dictionary of mathematics*, 2 vols. (Cambridge, Mass.: MIT Press, 1970) pp.
282. 1977 (Translators editor), Shokichi Iyanaga and Yukio Kawauchi (eds.), *Encyclopedic dictionary of mathematics*, 2 vols. (Cambridge, Mass.: MIT Press, 1970) pp.
283. 1977 Index of the American Mathematical Monthly, Volumes 1 through 80 (1894-1973).
284. 1977 *Akademie-* (July), 16:1 (July). *AMS Notices* 4 (August), 350.
285. 1977 International Commission on the History of Mathematics. Report of the Commissi-  
on on the History of Mathematics to the Division of History of the International  
Union of the History of Mathematics. *HM* 4 (November), 459-460.
286. 1978 *in connec-* *Logic* 13 (Logic of Compu-  
tation). *AMS Notices* 5 (November), 385.
287. 1980 *uitmethode-* *Mathematics in the 20th century: A collection of essays*, N. Metropolis, J.何well, & G.-C. Rota, eds., pp. 11-18. New York: Academic Press.
288. 1980 *dergrada-* *History of computing*, 4, 287. (1984).
289. 1980 *to: Univ.* *Letters to Walter S. Rogers*, Institute of Current World Affairs.
290. 1981 *Insts? HM* *Analysis—A freshman course*, copyright 1950, 219 pp., duplicated, Northfield, June, multigraph.
291. 1981 *Mind 81* *“Transitivity, utility, and aggregation in preference patterns,”* dictated February, July.
292. 1981 *ce Board* *Fundamental mathematics*, Vol. I, Preliminary edition, September, AW, 345 pp.
293. 1981 *M6.* *“Mathematics for high school preparation,”* dictate—outline, May.
294. 1981 *M7.* *“Fundamental mathematics for the school sciences,”* tentative syllabus, August.
295. 1981 *M8.* *“Mathematics for high school preparation,”* dictate—outline, May.
296. 1981 *M9.* *“Transitivity, utility, and aggregation in preference patterns,”* dictated February.
297. 1981 *M10.* *“Analyticity—A freshman course*, copyright 1950, 219 pp., duplicated, Northfield, June, multigraph.
298. 1981 *TM3.* *“Introductory topics in mathematical economics”* (syllabus), Oklahoma A & M, Chicago, December 5, dictated for private circulation.
299. 1981 *TM4.* *“Entitative methods of dealing with technical change,”* talk at University of Toledo, Ohio, October 5, dictated for private circulation.
300. 1981 *TM5.* *“Introduction to mathematics* (syllabus), syllabus, Oklahoma A & M, Tulsa, December 5, dictated for private circulation.
301. 1981 *TM6.* *“Transitivity, utility, and aggregation in preference patterns,”* dictated February.
302. 1981 *TM7.* *“Fundamental mathematics for the school sciences,”* tentative syllabus, August.
303. 1981 *TM8.* *“Mathematics for high school preparation,”* dictate—outline, May.
304. 1981 *TM9.* *“Fundamental mathematics*, Vol. I, Preliminary edition, September, AW, 345 pp.

- †M10. Worksheets to accompany *Fundamental mathematics*, dittoed.  
 †M11. 1956 "A philosophy for living," talk at Carleton, February 21, dittoed.  
 †M12. "Notes on mathematics and the social sciences," prepared in connection with lectures given at Secondary Math Institute, Iowa State Teachers' College, Cedar Falls, June 27-28.  
 †M13. "New developments in the undergraduate curriculum," 5 lectures at University of Michigan, August, dittoed notes.  
 †M14. "The mathematics program at Carleton College," report presented at a National Science Foundation conference at Hunter College, October 12, dittoed.  
 †M15. *Fundamental mathematics*, Vol. 2, February, 639 pp.  
 †M16. 1957 "Ways in which colleges and universities might maintain closer working relationships with science and mathematics teachers in secondary schools," dittoed, February, published for use of STIP of AAAS.  
 †M17. "Undergraduate research in math," dittoed, October, submitted to *AMM* October 1957.  
 †M18. 1959 "Some references on Boolean algebra," prepared in connection with TV program, April 22.  
 †M19. "Syllabus for Mathematics 107, 108," dittoed, Carleton College, September.  
 †M20. "The proofs of elementary algebra," dittoed, Northfield.  
 †M21. 1960 "Syllabus for Math 107, 108," Northfield, September, lithograph print.  
 †M22. "Report on an undergraduate training program in mathematics research at Carleton College, supported by NSF Grant 6-2790 during 1956-1960."  
 †M23. 1962 "The origin of the four-color conjecture," preliminary draft for private circulation and comment, dittoed, Northfield, November 1.  
 †M24. Review of I. N. Sevcenko, *Elements of the historical method in mathematical pedagogy* sent to *Math Reviews*, September 1962, not published.  
 †M25. 1963-1964 Programmed Instruction Memos to Committee on Educational Media  
     1. A "starter" library on programmed learning, October 8, 1963.  
     2. A wider definition of "programmes," October 18.  
     3. Evaluation of programmed materials, October 30.  
     4. Standards, November 21.  
     5. Available programs in math, December 5.  
     6. Reference call for programmers, March 20, 1964.  
     7. Costs, March 25.  
     8. Goals and modes of programming, April 25.  
     9. Machine versus book format for professors, April 28.  
     10. Teaching systems, May 8.  
 On deposit in Harvard Library office of *Program Instructor*.  
 †M26. 1964 "Programmed lessons on the structure of the number system," Committee on Educational Media Working Document, August, 453 pp. Lithograph, privately circulated.  
 †M27. "The origin of the four color problem," dittoed preprint, April.  
 †M28. 1965 "Mathematics and art," preprint, November and January 1966; to appear in *Canadian Art*, but not published (magazine changed hands).  
 †M29. 1966 "Charts illustrations 'Who killed determinants?' given at MAA," January 28, ditto, 28 pp., February.  
 †M30. 1966-1967 "History since 1800, draft of syllabus."  
 †M31. 1967 "Qualifications for a college faculty in mathematics," Committee on the Undergraduate Program in Mathematics, Mathematical Association of America, January, report of an ad hoc committee of 9.  
 M32. "Mathematics since 1800," syllabus for a course, multilith, University of Toronto, 41 pp. + 10 figs. (Part of a report to the U.S. Office of Education.)

of Toronto,

the Under-

ary 28, ditto,

ear in Cana-

dmitttee on

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te circulation

at Carlton

init.

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TV program,

M39. 1973

dittoed, Feb-

+M38. 1971

king relation-

M37. 1971

ded.

at National

M36. 1969

University of

+M35. 1969

College, Cedar

connection with

+M34. 1968

of Toronto.

,"Mathinfobank inventory 1968," preliminary edition for private circulation, Uni-

versity of Toronto.

,"Mathinfobank serial list," preliminary edition for private circulation, Uni-

versity of Toronto.

,"Mathematics since 1800, syllabus for a course," 2nd ed., University of Toronto,

with other members of the Advisory Committee, lithograph printing.

History of the Conference Board of the Mathematical Sciences," in collaboration on

,"An appeal for preservation of archival materials by the Advisory Committee on

with other members of the Advisory Committee, lithograph printing.

,"Students should know about mathematics," Abstract of invited address at the

Canadian Mathematical Congress, Montreal, June 5, 1964, reprint October,

geograph, 3 pp.

,"Problems of information retrieval in mathematics," preprint, June.

,"Syllabus for Math 420," University of Toronto.

,"Research manual for the history of mathematics," Toronto, 1973, 32 pp.; reprint

from *Bibliography and research manual of the history of mathematics*.

HM 11

KENNETH O. MAY—BIBLIOGRAPHY

393