

## BIBLIOGRAPHY

A complete bibliography for a *non-aristotelian system* would require many volumes and is, therefore, impossible here. The formulation of a *non-aristotelian system*, with the number of scientific facts known in 1933, turned out to be an extremely laborious process.

A non-aristotelian language and attitude differ considerably from the older languages and attitudes, and so a first non-aristotelian system has no literature which would deal directly with the subject. The statement 'that everything has already been said' is, unfortunately, largely true. This introduces serious complexities, because extremely few men have the genius of a Poincaré, and fully realize that the language used in making a statement plays an overwhelming role as to the consequences which eventually follow. If we even grant that 'every thing was said', I must add, 'but not so', and this *prevented the building* of a non-aristotelian system for more than two thousand years. One of the human tragedies can be found in the fact that *wise epigrams* do not work. It takes a *system* which often expresses similar notions; but they must be expressed in a *unified language* of different structure to make them workable.

In giving this extremely abbreviated, insufficient, and, perhaps even poorly selected bibliography, I had, in the main, three aims: (1) to acknowledge some of my direct obligations; (2) to give to the future student an outline of the type of literature in existence which has bearing on my subject; and (3) to list such books and articles which give further literature.

I was particularly careful to list as few scientific periodicals as possible because specialists in a given field do not need them; and laymen do not want them. In a number of instances, I have listed only one or two of the latest papers of an author, which give his previous titles.

Because of the lack of linguistic co-ordination, in most cases, I have had few or no opportunities to refer directly to many authors, although the titles of the books usually suggest the material needed. For further data on a given subject the reader is referred to the respective indexes. As a rule I had to express many similar notions, but from a different angle, and in a different language.

I have prefaced the books, parts, and chapters with many important quotations only to show that all modern science requires a fundamental non-aristotelian revision. The attentive reader will discover that, although I am in general sympathy with these quotations, yet, in many instances, I would have to express them differently.

In the case of the two volumes of *Colloidal Chemistry* edited by Alexander which is a collection of important contributions by different authors, I would have to list about one hundred and twenty more titles, and so I mostly refer to the page without giving the name of the author or the title of his contribution, for which I apologize. In a number of instances I have utilized the material given by *Science Service*, as printed in *Science* and I indicate such references by inserting *SS* before giving the date of the issue of *Science*.

1. ACKERMANN, W. Begründung des "tertium non datur" mittels der Hilbertschen Theorie der Widerspruchsfreiheit. *Math. Ann.* B. 93, H. 1/2.
2. See Hilbert.
3. ADAMS, J. T. *Our Business Civilization: Some Aspects of American Culture*. New York.
4. ADLER, A. *The Practice and Theory of Individual Psychology*. London, New York.
5. *Organ Inferiority and its Psychical Compensation*. Washington.
6. ALEXANDER, J., and BRIDGES, C. B. Some Physico-Chemical Aspects of Life Mutation, and Evolution. In *Colloid Chemistry*, edited by J. Alexander. New York.
7. ALEXANDER, J., editor. *Colloid Chemistry*. Vol. I, *Theory and Methods*. Vol. II, *Biology and Medicine*. New York.
8. ANREP, G. V. See Pavlov.

9. BABCOCK, E. B., and COLLINS, J. L. Mutations Caused by Radiations from the Earth. *SS. Science*. Aug. 2, 1929
10. Does Natural Ionizing Radiation Control Rate of Mutation ? *Proc. Nat. Acad. Sci.*, Vol. 15. 1929.
11. BACON, R. *Letter*. Translated from the Latin by T. L. Davis. Easton, Pennsylvania, London.
12. BAGG, H. J. Biological Effects of Irradiation. *SS. Science*. May 31, 1929
13. BAGG, H. J., and HALTER, C. R. Bodily Defects of X-rayed Mice. *SS. Science*. Jan. 6, 1928.
14. BALDWIN, J. M. *Thought and Things. A Study of the Development and Meaning of Thought or Genetic Logic*. 3 vol. London, New York
15. BANCROFT, W. D., and RICHTER, G. H. The Colloid Chemistry of Insanity. *Science*. May 8, 1931.
16. BANCROFT, W. D., and RUTZLER, J. E. Reversible Coagulation in Living Tissue. VIII. *Proc. Nat. Acad. Sci.*, Nova 1931.
17. BARON, M. A. See Gurwitch.
18. BAYLISS, W. M. *Principles of General Physiology*. New York.
19. *The Colloidal State in its Medical and Physiological Aspects*. London.
20. BECKER, O. *Mathematische Existenz*. Halle.
21. BELL, E. T. The Principle of General Relativity. See Bird, J. M., editor.
22. *Debunking Science*. Seattle.
23. *The Queen of the Sciences*. Baltimore.
24. BENT, S. *Ballyhoo the Voice of the Press*. New York.
25. BENTLEY, A. F. *Linguistic Analysis of Mathematics*. Bloomington, Indiana.
26. BERNSTEIN, B. A. Review of *Principia Mathematica*, Vol. I, 2nd edition *Bull. Amer. Math. Soc.* Nov., 1926.
27. BIGGS, H. F. *Wave Mechanics*. London, New York.
28. BIRD, J. M., editor. *Einstein's Theories of Relativity and Gravitation*. New York.
29. BIRKHOFF, G. D. *Relativity and Modern Physics*. Cambridge, Massachusetts, London.
30. *The Origin, Nature, and Influence of Relativity*. London, New York.
31. BIRTWISTLE, G. *The Quantum Theory of the Atom*. London, New York.
32. *The New Quantum Mechanics*. London, New York.
33. BLEULER, E. *The Theory of Schizophrenic Negativism*. Washington.
34. *Textbook of Psychiatry*. New York, London.
35. BLISS, G. A. *Calculus of Variations*. Chicago, London.
36. The Calculus of Variations and the Quantum Theory. *Bull. Amer. Math Soc.* Apr., 1932.
37. BOAS, F. *The Mind of Primitive Man*. London, New York.
38. *Anthropology and Modern Life*. New York.
39. BOCHER, M. *Introduction to Higher Algebra*. New York, London.
40. BOLTON, J. S. *The Brain in Health and Disease*. London.
41. BOLTON, L. *An Introduction to the Theory of Relativity*. London, New York
42. BONOLA, R. *Non-Euclidean Geometry*. Chicago, London.
43. BOOLE, G. *The Mathematical Analysis of Logic*. Cambridge.
44. *Investigation of the Laws of Thought; on Which Are Founded the Mathematical Theories of Logic and Probabilities*. London, Chicago.
45. BORN, M. *Einstein's Theory of Relativity*. London, New York.
46. *Problems of Atomic Dynamics*. Cambridge, Massachusetts.
47. BOTCHARSKY, S., and FOERINGER, A. Radiation from Vitamins. *SS. Science*. July 17, 1931.
48. BOUSQUET, G. H. *Précis de sociologie d'après Vilfredo Pareto*. Paris.
49. BOVIE, W. T. The Biological Effects of Light. (*Lectures on the Biologic Aspects of Colloid and Physiologic Chemistry*, by W. T. Bovie and others. Philadelphia, London. )
50. BRAGG, SIR WILLIAM. *Concerning the Nature of Things*. London, New York.
51. BREITWIESER, J. V. *Psychological Education*. New York.

52. BRIDGES, C. B., and MORGAN, T. H. The Third Chromosome Group of Mutant Characters of *Drosophila melanogaster*, *Carnegie Inst. Pub.*, No. 327. 1923.
53. BRIDGES, C. B. See Alexander.
54. See Morgan, T. H.
55. BRIDGMAN, P. W. *The Logic of Modern Physics*. New York, London
56. *The Physics of High Pressure*. London.
57. Statistical Mechanics and the Second Law of Thermodynamics. Gibbs Lecture. *Bull. Amer. Math. Soc.* Apr., 1932.
58. BRIGHAM, C. C. *A Study of American Intelligence*. Princeton.
59. BRILL, A. A. *Psychnalysis: Its Theories and Practical Applications*. Philadelphia, London.
60. BRILLOUIN, L. See de Broglie.
61. BROAD, C. D. *Scientific Thought*. London, New York.
62. *The Mind and its Place in Nature*. London, New York.
63. BROGLIE, L. DE. *Ondes et mouvements*. Paris.
64. *An Introduction to the Study of Wave Mechanics*. London, New York.
65. BROGLIE, L. DE, and BRILLOUIN, L. *Selected Papers on Wave Mechanics*. London, Glasgow.
66. BROUWER, L. E. J. Intuitionism and Formalism. *Bull. Amer. Math. Soc.* Nov., 1913.
67. Über die Bedeutung des *principium tertii exclusi* in der Mathematik, besonders in der Funktionentheorie. *Jour. f. Math.*, Vol. 154. 1925
68. BRUNOT, F. *La Pensee et la langue*. Paris.
69. BRUNSCHVICG, L. *Les Etapes de la philosophie mathématique*. Paris
70. BURROW, T. *The Social Basis of Consciousness*. London, New York
71. *The Structure of Insanity*. London.
72. CAJORI, F. *A History of the Conceptions of Limits and Fluxions in Great Britain from Newton to Woodhouse*. Chicago, London
73. *William Oughtred*. Chicago, London.
74. *A History of Mathematics*. New York, London.
75. *A History of Mathematical Notations*, 2 vol. Chicago, London.
76. *A History of Physics*. New York, London.
77. CAMPBELL, N. R. *Physics, the Elements*. Cambridge
78. CANNON, W. B. *Bodily Changes in Pain, Hunger, Fear and Rage*. New York, London.
79. *The Wisdom of the Body*. New York.
80. CANTOR, G. *Contributions to the Founding of the Theory of Transfinite Numbers*. Chicago, London.
81. CARMICHAEL, R. D. *The Theory of Relativity*. New York, London.
82. *The Logic of Discovery*. Chicago, London.
83. CARMICHAEL, R. D., and others. *A Debate on the Theory of Relativity*. Chicago, London.
84. CARNAP, R. *Abriss der Logistik*. Wien.
85. CARREL, A. Physiological Time. *Science*. Dec. 18, 1931.
86. CASSIRER, E. *Das Erkenntnisproblem in der Philosophie and Wissenschaft der neueren Zeit*, 3 vol. Berlin.
87. *Substance and Function, and Einstein's Theory of Relativity*. Chicago, London.
88. *Philosophie der Symbolischen Formen*, 4 vol. Berlin.
89. CHILD, C. M. *Senescence and Rejuvenescence*. Chicago.
90. *Individuality in Organisms*. Chicago
91. *The Origin and Development of the Nervous System*. Chicago.
92. *Physiological Foundations of Behavior*. New York.
93. CHURCH, ALONZO. On Irredundant Sets of Postulates. *Trans. Amer. Math. Soc.* July, 1925
94. On Irredundant Sets of Postulates. *Bull. Amer. Math. Soc.* Nov., 1926.
95. Alternatives to Zermelo's Assumption. *Trans. Amer. Math. Soc.* Jan., 1927.

96. On the Law of the Excluded Middle. *Bull. Amer. Math. Soc.* Jan., 1928.
97. Review of *Principia Mathematica*, Vol. II and III, 2nd edition. *Bull. Amer. Math. Soc.* Mar., 1928.
98. A Set of Postulates for the Foundation of Logic. *Ann. of Math.* Apr., 1932.
99. CHURCH, ARCHIBALD, and PETERSON, F. *Nervous and Mental Diseases*. Philadelphia, London.
100. CHWISTEK, L. *Wielosc Rzeczywistosci*. Krakow.
101. The Theory of Constructive Types (Principles of Logic and Mathematics) 2 parts. *Ann. soc. polonaise de mathématique*. Krakow. 1924, 1925.
102. Über die Hypothesen der Mengenlehre. *Math. Zeit.* B. 25, H. 3. Berlin. 1926.
103. Une Méthode metamathématique d'analyse. *C. R. du 1<sup>er</sup> congrès des math. des pays Slaves*. Warsaw. 1929.
104. Neue Grundlagen der Logik und Mathematik, Part I. *Math. Zeit.* B. 30 H. 5. Berlin. 1929. Part II, B. 34, H. 4. Berlin. 1932.
105. CLARK, P. *Napoleon Self-Destroyed*. New York.
106. COGHILL, G. E. *Anatomy and the Problem of Behaviour*. Cambridge.
107. The Structural Basis of the Integration of Behavior. *Proc. Nat. Acad. Sci.* Oct., 1930.
108. COHEN, E. *Physico-Chemical Metamorphosis and Some Problems in Piezo-chemistry*. New York, London.
109. COHEN, M. R. *Reason and Nature*. New York.
110. COLLINS, J. *The Doctor Looks at Love and Life*. New York
111. COLLINS, J. L. See Babcock.
112. CONKLIN, E. G. *Heredity and Environment in the Development of Men*. Princeton.
113. *The Direction of Human Evolution*. New York.
114. COOK, W. W. Scientific Method and the Law. *Johns Hopkins Al. Mag.* Mar., 1927.
115. COOLIDGE, W. D. Cathode Rays for Drying Paint. *SS. Science.* Apr. 15, 1927
116. COURANT, R., and HILBERT, D. *Methoden der mathematischen Physik*. B. I. Berlin.
117. COUTURAT, L. *La Logique de Leibniz, d'après documents inédits*. Paris.
118. *Les Principes des mathématiques, avec un appendice sur la philosophie des mathématiques de Kant*. Paris.
119. *The Algebra of Logic*. Chicago, London.
120. The Principles of Logic. (*Encyclopaedia of the Philosophical Sciences*. Vol. I. Logic. London, New York.)
121. CRILE, G. W. Autosynthetic Cells. *SS. Science.* Jan. 16, 1931.
122. CROOKSHANK, F. G. The Importance of. a Theory of Signs and a Critique of Language in the Study of Medicine. (Supplement II in Ogden and Richards, *The Meaning of Meaning*. London, New York.)
123. CULLIS, C. E. *Matrices and Determinoids*, 3 vol. Cambridge.
124. CUNNINGHAM, E. *Relativity the Electron Theory and Gravitation*. London New York.
125. CURTISS, D. R. *Analytic Functions of a Complex Variable*. Chicago, London.
126. DANTZIG, T. *Number, the Language of Science*. New York, London.
127. DARROW, C. W. Sensory, Secretary and Electrical Changes in the Skin Following Bodily Excitation. *Jour. Exp. Psych.* June, 1927.
128. The Galvanic Skin-Reflex and Finger Volume Changes. *Amer. Jour. Phys.* Mar., 1929.
129. DARROW, K. K. *Introduction to Contemporary Physics*. New York.
130. DARWIN, C. G. *The New Conception of Matter*. New York, London.
131. DAVENPORT, C. B. *Heredity in Relation to Eugenics*. New York.
132. DAVIS, H. T. *Philosophy and Modern Science*. Bloomington, Indiana.
133. DAVIS, T. L. See Bacon
134. DEDEKIND, R. *Essays on the Theory of Numbers*. Chicago, London.
135. DEJERINE, J. *Le Langage*. Paris.
136. DELACROIX, H. *Le Langage et la pensée*. Paris.
137. DERCUM, F. X. *An Essay on the Physiology of Mind*. Philadelphia.

138. DEWEY, J. *Human Nature and Conduct; an Introduction to Social Psychology*. New York.
139. *Experience and Nature*. Chicago, London.
140. *The Quest for Certainty; a Study of the Relation of Knowledge and Action*. London, Glasgow.
141. DICKSON, L. E. *Introduction to the Theory of Numbers*. Chicago, London.
142. DIRAC, P. A. M. *The Principles of Quantum Mechanics*. Oxford.
143. DRESDEN, A. Brouwer's Contributions to the Foundations of Mathematics. *Bull. Amer. Math. Soc.* Jan., 1924.
144. Some Philosophical Aspects of Mathematics. *Bull. Amer. Math. Soc.* July, 1928.
145. DROBISCH, M. W. *Neue Darstellung der Logik*. Hamburg.
146. ECKART, C. Operator Calculus and the Solution of the Equations of Quantum Dynamics. *Phys. Rev.* Oct., 1926.
147. EDDINGTON, A. S. *Space, Time and Gravitation*. Cambridge.
148. *The Mathematical Theory of Relativity*. Cambridge.
149. *The Nature of the Physical World*. Cambridge.
150. EINSTEIN, A. *Relativity*. New York.
151. *Sidelights on Relativity*. London, New York.
152. *The Meaning of Relativity*. Princeton.
153. *Investigations on the Theory of the Brownian Movement*. London, New York
154. Zur Einheitlichen Feldtheorie. *Sitz. Preus. Akad. Wiss.* Berlin. 1929.
155. See Lorentz.
156. EINSTEIN, A. and MAYER, W. Einheitliche Theorie von Gravitation und Elektrizitat. *Sitz. Preus. Akad. Wiss.* Berlin. 1931.
157. ELLIS, H. *Studies in the Psychology of Sex*, 6 vol. Philadelphia.
158. ENRIQUES, F. The Problems of Logic. (*Encyclopaedia of the Philosophical Sciences. Vol. I. Logic.* London, New York.)
159. *Problems of Science*. Chicago, London.
160. FAJANS, K., and WUST, J. *A Textbook of Practical Physical Chemistry*. London, New York.
161. FERENCZI, S. *Further Contributions to the Theory and Technique of Psychoanalysis*. London.
162. FERENCZI, S., and RANK, O. *The Development of Psychoanalysis*. Washington
163. FERENCZI, S., and others. *Psycho-analysis and the War Neuroses*. London.
164. FISCHER, M. H. *Fats and Fatty Degeneration*. New York.
165. *Oedema and Nephritis*. New York.
166. Colloid Chemistry in Biology and Medicine. (*Mayo Foundation Lectures on the Biologic Aspects of Colloid and Physiologic Chemistry*. Philadelphia, London.)
167. Lyophilic Colloids and Protoplasmic Behavior. In *Colloid Chemistry, Vol. II*, edited by J. Alexander. New York.
168. FISCHER, M. H., and collaborators. *Soaps and Proteins*. New York.
169. FISHER, A. *The Mathematical Theory of Probabilities, Vol. I*. London, New York.
170. FOERINGER, A. See Botcharsky.
171. FRAENKEL, A. *Zehn Vorlesungen uber die Grundlegung der Mengenlehre*. Leipzig, Berlin.
172. FRAZER, J. G. *Totemism and Exogamy. A Treatise on Certain Early Forms of Superstition and Society*, 4 vol. London, New York.
173. *The Golden Bough, a Study in Magic and Religion*. London, New York.
174. FREEMAN, W. Psychochemistry. *Jour. Amer. Med. Asso.* Aug. 1, 1931.
175. FREGE, G. *Die Grundlagen der Arithmetik*. Breslau.
176. FREUD, S. *Totem and Taboo*. New York.
177. *A General Introduction to Psychoanalysis*. New York.
178. *Psychopathology of Everyday Life*. New York, London.
179. *Selected Papers on Hysteria and Other Psychoneuroses*. Washington.
180. *Beyond the Pleasure Principle*. London.

181. *Collected Papers*, 4 vol. London.
182. *The Ego and the Id* London.
183. *The Problem of Lay-Analyses*. New York.
184. *The Future of an Illusion*. London, New York.
185. FREUNDLICH, E. *The Foundations of Einstein's Theory of Gravitation*. London, New York.
186. *The Theory of Relativity*. London, New York
187. FREUNDLICH, H. *Colloid and Capillary Chemistry*. London, New York.
188. GANTT, W. H. Recent Work of Pavlov and his Pupils. *Arch Neur. and Psych.* Apr., 1927.
189. *A Medical Review of Soviet Russia*. London.
190. See Kupalov.
191. See Pavlov.
192. GIBBS, W. See Wilson, E. B.
193. GOMPERZ, H. *Weltanschauungslehre*, 2 vol. Jena
194. GOMPERZ, T. *Greek Thinkers*. London.
195. GONSETH, F. *Les Fondements des mathématiques*. Paris.
196. GOODSPEED, T. H. The Breeding of X-rayed Tobacco Plants. *SS. Science*. Jan. 6, 1928.
197. GRAVEN, P. S. A Series of Clinical Notes on Headache. *Psychoan. Rev.* July, 1924.
198. A Case of Smoke Phobia. *Psychoan. Rev.* Apr. 1925.
199. GREGORY, J. C. *A Short History of Atomism from Democritus to Bohr*. London.
200. GROOT, J. J. M. DE. *The Religious System of China*. London.
201. GURWITCH, A., and BARON, M. A. Emission of Rays by Plant Cells. *SS. Science*. June 15, 1928.
202. GUYE, C. E. *Physico-Chemical Evolution*. London.
203. HAAS, A. *The New Physics*. London, New York.
204. *Introduction to Theoretical Physics*, 2 vol. London, New York.
205. *Wave Mechanics and the New Quantum Theory*. London, New York.
206. *Quantum Chemistry. A Short Introduction in Four Non-mathematical Lectures*. London.
207. HALL, G. S. *Jesus, the Christ, in the Light of Psychology*. New York.
208. HALLIBURTON, W. D. *Handbook of Physiology*. London
209. HALTER, C. R. See Bagg.
210. HANCE, R. T. The Results of X-ray Experiments on Warm-blooded Animals. *SS. Science*. Jan. 6, 1928.
211. HANSON, F. B., and HEYS, F. A Possible Relation between Natural (Earth) Radiation and Gene Mutations. *Science*. Jan. 10, 1930.
212. HEAD, H. *Aphasia and Kindred Disorders of Speech*, 2 vol. London, New York.
213. HEAD, H., and others. *Studies in Neurology*, 2 vol. London.
214. HEILBRUNN, L. V. *The Colloid Chemistry of Protoplasm*. Berlin.
215. HEISENBERG, W. *The Physical Principles of the Quantum Theory*. Chicago, London.
216. HELSON, H. The Tau Effect. An Example of Psychological Relativity. *Science*. May 23, 1930.
217. HENDERSON, L. J. *The Fitness of the Environment*. New York, London.
218. HERELLE, F. D. *The Bacteriophage*. Baltimore.
219. *Immunity in Natural Infectious Disease*. Baltimore.
220. HERRICK, C. J. *An Introduction to Neurology*. Philadelphia, London.
221. *Neurological Foundations of Animal Behavior*. New York.
222. *Brains of Rats and Men*. Chicago.
223. *The Thinking Machine*. Chicago.
224. Localization of Function in the Nervous System. *Proc. Nat. Acad. Sci.* Oct., 1930.
225. HEYS, F. See Hanson.
226. HILBERT, D. *The Foundations of Geometry*. Chicago, London.
227. See Courant.

228. HILBERT, D., and ACKERMANN, W. *Grundzuge der Theoretischen Logik*. Berlin.
229. HINKLE, B. *The Re-creating of the Individual*. New York.
230. HOBSON, E. W. *The Domain of Natural Science*. Aberdeen, Cambridge.
231. HOLLANDER, B. *The Mental Symptoms of Brain Disease*. London.
232. HOLMES, S. J. *The Evolution of Animal Intelligence*. New York.
233. *Studies in Animal Behavior*. Boston.
234. MOLT, E. B. *The Freudian Wish*. New York.
235. *Animal Drive and the Learning Process*. New York
236. HUNTER, W. S. *The Delayed Reaction in Animals and Children*. Behav. Mono., Vol. 2, No. 1.
237. HUNTINGTON, E. V. *The Continuum*. Cambridge, Massachusetts.
238. HUNTINGTON, E. V., and KLINE, J. R. Sets of Independent Postulates for Betweenness. *Trans. Amer. Math. Soc.* July, 1917.
239. JAMES, W. *The Principles of Psychology*, 2 vol. New York
240. JEFFREYS, H. *Scientific Inference*. Cambridge.
241. JELLIFFE, S. E. *The Technique of Psychoanalysis*. Washington.
242. JELLIFFE, S. E., and WHITE, W. A. *Diseases of the Nervous System. A Textbook of Neurology and Psychiatry*. Philadelphia.
243. JENNINGS, H. S. *The Behavior of Lower Organisms*. New York.
244. *Life and Death Heredity and Evolution in Unicellular Organisms*. Boston.
245. Review of Ritter's "*The Unity of the Organism, or the Organismal Conception of Life.*" *Phil. Rev.* Nov., 1921.
246. *Prometheus or Biology and the Advancement of Man*. London, New York.
247. *The Biological Basis of Human Nature*. New York.
248. JESPERSEN, O. *Language*. New York.
249. JEVONS, W. S. *The Elements of Logic*. New York.
250. *The Principles of Science*. London, New York.
251. JOHNSON, T. H. The Wave Length of Atoms. *SS. Science*. July 17, 1931.
252. JOHNSTONE, J. *The Mechanism of Life*. London.
253. JONES, E. *Essays in Applied Psycho-analysis*. London.
254. JORGENSEN, J. *A Treatise of Formal Log\*. Its Evolution and Main Branches with its Relations to Mathematics and Philosophy*, 3 vol. Oxford.
255. JUNG, C. G. *Contributions to Analytical Psychology*. London.
256. *Psychological Types: or the Psychology of Individuation*. London, New York.
257. JUST, E. E. Effects of Ultra-violet Rays on Eggs of *Nereis*. *SS. Science*. Jan. 6, 1928.
258. KAUFMANN, F. *Das Unendliche in der Mathematik und seine Ausschaltung*. Leipzig, Vienna.
259. KEMPF, E. J. *Psychopathology*. St. Louis.
260. KENNEDY, R. J. A Refinement of the Michelson-Morley Experiment. *Proc. Nat. Acad. Sci.* Nov., 1926.,
261. KENNEDY, R. J., and THORNDIKE, E. M. Experimental Establishment of the Relativity of Time. *Phys. Rev.* Nov., 1932.
262. KEYNES, J. M. *A Treatise on Probability*. London. New York.
263. KEYSER, C. J. *The Human Worth of Rigorous Thinking*. New York.
264. *Mathematical Philosophy*. New York
265. *Thinking about Thinking*. New York.
266. *Mole Philosophy and Other Essays*. New York.
267. *The Pastures of Wonder*. New York.
268. *Humanism and Science*. New York.
269. The Nature of the Doctrinal Function and its Role in Rational Thought. *Yale Law Jour.* Mar., 1932.
270. KINDER, E. F. See Syz.
271. KLINE, J. R. See Huntington.
272. KLUGH, A. B. Ultra-violet Radiations Deadly to the Minute *Crustacea*. *SS. Science*. Jan. 6, 1928.
273. KNUDSON, A. Further Studies on the Antirachitic Activation of Substances by Cathode Rays. *Science*. Aug. 19, 1927.

274. KOFFKA, K. *The Growth of the Mind*. London, New York.
275. KOHLER, W. *Gestalt Psychology*. London, New York.
276. *The Mentality of Apes*. London, New York.
277. KORMES, M. On the Functional Equation  $f(x + y) = f(x) + f(y)$ . *Bull. Amer. Math. Soc.* Nov., 1926.
278. KORZYBSKI, A. *Manhood of Humanity. The Science and Art of Human Engineering*. New York.
279. Fate and Freedom. *Math. Teacher*. May, 1923.
280. The Brotherhood of Doctrines. *The Builder*. Apr., 1924.
281. *Time-Binding: The General Theory*. Presented before the Internat. Math. Congress, 1924, Toronto, Can. New York.
282. *Time-Binding: The General Theory*. Second Paper. Before the Washington Soc. Nervous and Mental Diseases, June 25, 1925; and the Washington Psychopath. Soc., March 13, 1926. Washington, D. C.
283. Discussion of 'Mental Hygiene and Criminology'. *Proc. First Internat. Congress of Mental Hygiene*, Washington, D. C. May, 1930.
- 283a. A Non-aristotelian System and Its Necessity for Rigour in Mathematics and Physics. Presented before the Amer. Math. Soc., at New Orleans, Dec. 28, 1931. Reprinted in the present volume as Supplement III.
284. KRETSCHMER, E. *Physique and Character*. London, New York.
285. KUPALOV, P. S., and GANTT, W. H. The Relationship between the Strength of the Conditioned Stimulus and the Size of the Resulting Conditioned Reflex. *Brain*. Vol. 50, Pt. 1. 1927.
286. LANG, H. B., and PATERSON, J. A. A Preliminary Report on Functional Psychoses. *Proc. Nat. Acad. Sci.* Nov., 1931.
287. LANGDON-DAVIES, J. *Man Comes of Age*. New York.
288. LANGWORTHY, O. R., and RICHTER, C. P. The Influence of Efferent Cerebral Pathways upon the Sympathetic Nervous System. *Brain*. Vol. 53, Pt. 2. 1930
289. LASHLEY, K. S. *Brain Mechanisms and Intelligence*. Chicago.
290. LASSWELL, H. D. *Psychopathology and Politics*. Chicago.
291. LEARNED, B. W. See Yerkes, R. M.
292. LEDUC, S. *The Mechanism of Life*. New York.
293. Solution and Life. In *Colloid Chemistry*, edited by J. Alexander. New York
294. LENZEN, V. F. - *The Nature of Physical Theory*. New York, London.
295. LESNIEWSKI, S. Grundzuge eines neuen Systems der Grundlagen der Mathematik. *Fund. Math.* B. 14. Warsaw. 1929.
296. Uber die Grundlagen der Ontologie. *C. R. des séances de la soc. des sciences et des lettres de Varsovie*. XXIII. 1930. Classe III.
297. On the Foundations of Mathematics (in Polish). Eleven chapters in the *Przegląd Filozoficzny* (Philosophical Review). Warsaw, Poland. 1930, 1931.
298. LEVY-BRUHL, L. *Primitive Mentality*. London, New York
299. *How Natives Think*. London, New York
300. LEWIS, C. I. *A Survey of Symbolic Logic*. Berkeley.
301. LEWIS, G. N. *The Anatomy of Science*. New Haven.
302. See Wilson, E. B.
303. LEWIS, N. D. C. *The Constitutional Factors in Dementia Praecox*. Washington.
304. LILLIE, R. S. *Protoplasmic Action and Nervous Action*. Chicago
305. LOBATCHEVSKI, N. *Geometrical Researches on the Theory of Parallels*. Chicago, London.
306. LOEB, J. *Comparative Physiology of the Brain and Comparative Psychology*. New York, London
307. *Studies in General Physiology*, 2 vol. Chicago.
308. *The Dynamics of Living Matter*. New York.
309. *The Mechanistic Conception of Life*. Chicago.
310. *The Organism as a Whole*. New York, London.
311. *Forced Movements, Tropisms, and Animal Conduct*. Philadelphia, London.

312. *Proteins and the Theory of Colloidal Behaviour*. New York, London.
313. LONG, J. S. Cathode Rays for Drying Paint. *SS. Science*. Apr. 15, 1927.
314. LORENTZ, H. A., EINSTEIN, A., MINKOWSKI, H., and WEYL, H. *The Principle of Relativity*. London, New York.
315. LOTKA, A. J. *Elements of Physical Biology*. Baltimore.
316. LUCAS, K. *The Conduction of the Nervous Impulse*. London.
317. LUKASIEWICZ, J. The Significance and Needs of Mathematical Logic (in Polish). *Nauka Polska*. Vol. X.
318. Philosophische Bemerkungen zu mehrwertigen Systemen des Aussagenkalkuls. *C. R. des séances de la soc. des sciences et des lettres de Varsovie*. XXIII. 1930. Classe III.
319. LUKASIEWICZ, J., and TARSKI, A. Untersuchungen über den Aussagenkalkül. *Ibid.*
320. LUMIERE, A. *Rôle des colloïdes chez les êtres vivants. Essai de biocolloïdologie*. Paris.
321. MacDOUGAL, D. T. Dr. Crile's "Autosynthetic Cells." *SS. Science*. Jan. 16, 1931.
322. Reactions of Non-Living Matter. *Ibid.*
323. MACH, E. *The Science of Mechanics*. Chicago, London.
324. *Scientific Lectures*. Chicago, London.
325. *Space and Geometry*. Chicago, London.
326. *Conservation of Energy*. Chicago, London.
327. *The Analysis of Sensations*. Chicago, London.
328. MACHT, D. I. Contributions to Phytopharmacology or the Applications of Plant Physiology to Medical Problems. *Science*. Mar. 21, 1930.
329. MacLAURIN, C. *Post Mortem. Essays, Historical and Medical*. New York.
330. MAIER, H. *Die Syllogistik des Aristoteles*. Tübingen.
331. MALINOWSKI, B. *Argonauts of the Western Pacific*. London, New York.
332. The Problem of Meaning in Primitive Languages. (Supplement I in Ogden and Richards' *The Meaning of Meaning*. London, New York.)
333. *Crime and Custom in Savage Society*. London, New York.
334. *Myth in Primitive Psychology*. London, New York.
335. *Sex and Repression in Savage Society*. London, New York.
336. *The Father in Primitive Psychology*. London, New York.
337. MAST, S. O. *Light and the Behavior of Organisms*. New York.
338. MAUTHNER, F. *Beiträge zu einer Kritik der Sprache*, 3 vol. Stuttgart, Leipzig.
339. *Aristotle*. New York.
340. MAYER, W. See Einstein.
341. McCLENDON, J. F. *Physical Chemistry of Vital Phenomena*. Princeton.
342. McCLENDON, J. F., and MEDES, G. *Physical Chemistry in Biology and Medicine*. Philadelphia.
343. McCOLLUM, E. V. *The Newer Knowledge of Nutrition*. London, New York.
344. McCOLLUM, E. V., and ORENT, E. R. The Effects of Deprivation of Manganese on the Rat. *Science*. May 8, 1931.
345. McCREA, A. Ultra-violet Radiation in the Promotion of Plant Growth. *SS. Science*. Jan. 6, 1928.
346. McDOUGALL, W. *World Chaos. The Responsibility of Science*. New York.
347. MEDES, G. See McClendon.
348. MENGER, K. *Dimensionstheorie*. Leipzig, Berlin.
349. MERZ, J. T. *A History of European Thought in the Nineteenth Century*. Chicago, London.
350. MEYER, A. *Psychobiology*. New York.
351. MIKAMI, Y. See Smith, D. E.
352. MINKOWSKI, H. Space and Time. In *The Principle of Relativity* by H. A. Lorentz and others. London, New York.
353. MONAKOW, C. Von. *The Emotions, Morality and the Brain*. Washington.
354. MORGAN, A. DE, *Formal Logic or the Calculus of Inference, Necessary and Probable*. London, New York.

355. *Elementary Illustrations of the Differential and Integral calculus*. Chicago, London.
356. MORGAN, C. L. *An Introduction to Comparative Psychology*. London.
357. *Emergent Evolution*. New York.
358. MORGAN, T. H. *The Physical Basis of Heredity*. Philadelphia, London.
359. *The Theory of the Gene*. New Haven
360. *Experimental Embryology*. New York.
361. See Bridges.
362. MORGAN, T. H., STURTEVANT, A. H., MULLER, H. J., and BRIDGES, C. B. *The Mechanism of Mendelian Heredity* New York
363. MUHL, A. M. Fundamental Personality Trends in Tuberculous Women. *Psychoan. Rev.* Oct., 1923.
364. MULLER, H. J. X-rays and Evolution. *SS. Science*. Sept. 16, 1927.
365. The Effects of X-Radiation on Genes and Chromosomes. *Abstract. Anat. Rec., Vol. 37, and Science*. Jan. 27, 1928.
366. The Problem of Genic Modification. *Verhand. V. Internat. Kongresses Vererb.* B. I. 1928.
367. The Production of Mutations by X-rays. *Proc. Nat. Acad. Sci.*, Vol. 14. 1928.
368. See Morgan, T. H.
369. MULLER, H. J. and PAINTER, T. S. The Cytological Expression of Changes in Gene Alignment Produced by X-rays in *Drosophila*. *Amer. Naturalist.*, Vol. 63. 1929.
370. MURPHY, D. P. Dangers of X-Ray Therapy. *SS. Science*. July 19, 1929.
371. NICOD, J. *Foundations of Geometry and Induction*. London, New York.
372. NORDMANN, C. *Einstein and the Universe*. New York.
373. *The Tyranny of Time*. London, New York
374. NORTHROP, F. S. C. *Science and First Principles*. New York, London.
375. NUNN, T. P. *Relativity and Gravitation*. London.
376. OGDEN, C. K. *The Basic Vocabulary*. London.
377. *Basic English*. London.
378. OGDEN, C. K., and RICHARDS, I. A. *The Meaning of Meaning*. London, New York,
379. ORENT, E. R. See McCollum.
380. OSBORN, H. F. *Men of the Old Stone Age*. New York.
381. OSGOOD, W. F. *A First Course in the Differential and Integral Calculus*. New York, London.
382. PACKARD, C. The Effects of Beta and Gamma Rays of Radium on Protoplasm. *Jour. Exp. Zool.*, Vol. 19. 1915.
383. The Susceptibility of Cells to Radium Radiations. *Biol. Bull.*, Vol. 46. 1924.
384. Biological Effects of Irradiation. *SS. Science*. May 31, 1929.
385. PAGET, SIR RICHARD. *Human Speech*. London, New York.
386. PAINTER, T. S. See Muller.
387. PARETO, V. Compiled by G. H. Bousquet. *Précis de sociologie*. Paris.
388. PARKER, G. H. *The Elementary Nervous System*. London Philadelphia.
389. *Smell, Taste and Allied Senses in the Vertebrates*. Philadelphia.
390. PATERSON, J. A. See Lang.
391. PATON, S. *Education in War and Peace*. New York.
392. *Signs of Sanity and the Principles of Mental Hygiene*. New York.
393. *Prohibiting Minds and the Present Social and Economic Crisis*. New York.
394. PAVLOV, I. P. *Conditioned Reflexes an Investigation of the Physiological activity of the Cerebral Cortex*. Translated and edited by G. V. Anrep. London, New York.
395. *Lectures on Conditioned Reflexes*. Translated by W. H. Gantt. New York.
396. PEANO, G. *Formulaire de mathématiques. Logique mathématique*. Turin.
397. PEARL, R. *Modes of Research in Genetics*. New York.
398. *The Biology of Death*. Philadelphia, London.
399. *Studies in Human Biology*. Baltimore.
400. *The Present Status of Eugenics*. Hanover, New Hampshire.
401. PEARSON, K. *The Grammar of Science*. London.

402. PEIRCE, C. S. *Chance, Love and Logic*. London, New York.
403. PETERSON, F. See Church, A.
404. PIAGET, J. *The Language and Thought of the Child*. London, New York.
405. *Judgment and Reasoning in the Child*. London, New York.
406. *The Child's Conception of the World*. London, New York.
407. *The Child's Conception of Physical Causality*. London, New York.
408. PIAGGIO, H. T. H. *Differential Equations*. London.
409. PIÉRON, H. *L'Evolution de la mémoire*. Paris.
410. *Principles of Experimental Psychology*. London, New York.
411. *Thought and the Brain*. London, New York.
412. PIERPONT, J. Mathematical Rigor, Past and Present. *Bull. Amer. Math. Soc.* Jan., 1928.
413. PITKIN, W. B. *A Short Introduction to the History of Human Stupidity*. New York.
414. PLANCK, M. *The Origin and Development of the Quantum Theory*. Nobel Prize Address. Oxford.
415. *A Survey of Physics*. London, New York.
416. PLAUSON, H. Uses of the Cathode Rays. *SS. Science*. Aug. 24, 1928.
417. POINCARÉ, H. *The Foundations of Science*. New York.
418. POLAKOV, W. N. *Man and His Affairs*. Baltimore.
419. PRANTL, C. Von. *Geschichte der Logik im Abendlande*, 4 vol. Leipzig.
420. PRINCE, M. *The Unconscious*. New York.
421. *The Dissociation of a Personality*. New York.
422. RABAUD, E. *How Animals Find Their Way About*. London, New York.
423. RAINICH, G. Y. Tensor Analysis without Coordinates. *Proc. Nat. Acad. Sci.* June, 1923.
424. Electrodynamics in the General Relativity Theory. *Proc. Nat. Acad. Sci.* Apr., 1924
425. Twodimensional Tensor Analysis without Coordinates. *Amer. Jour. of Math.* Apr., 1924.
426. Second Note. Electrodynamics in the General Relativity Theory. *Proc. Nat. Acad. Sci.* July, 1924.
427. Electrodynamics in the General Relativity Theory. *Trans. Amer. Math. Soc.* Jan., 1925.
428. Second Paper on Tensor Analysis. *Amer. Jour. of Math.* Jan., 1925.
429. Mass in Curved Space-Time. *Proc. Nat. Acad. Sci.* Feb., 1926.
430. The Role of Groups in a Physical Theory. *Jour. Franklin Inst.* Apr., 1929.
431. Analytic Functions and Mathematical Physics. *Bull. Amer. Math. Soc.* Oct., 1931.
432. *Mathematics of Relativity. Lecture Notes*. Ann Arbor, Michigan.
433. RAMSEY, F. P. The Foundations of Mathematics. *Proc. London Math. Soc.* (2). Vol. 25. 1926.
434. RANK, O. *The Trauma of Birth*. London, New York.
435. See Ferenczi.
436. RASHEVSKY, N. V. Reactions of Non-Living Matter. *SS. Science*. Jan. 16, 1931.
437. Drops Acting like Living Cells. *SS. Science*. May 8, 1931.
438. REISER, O. L. *Humanistic Logic for the Mind in Action*. New York.
439. RICHARDS, I. A. See Ogden.
440. RICHTER, G. H. See Bancroft.
441. RIETZ, H. L. *Mathematical Statistics*. Chicago.
442. RINALDO, J. *The Psychoanalysis of the Reformer*. New York.
443. RITCHIE, A. D. *Scientific Method*. London, New York.
444. PITTER, W. E. *The Unity of the Organism; or the Organismal Conception of Life*, 2 vol. Boston.
445. ROBACK, A. A. *Behaviorism and Psychology*. Cambridge, Mass.
446. *The Psychology of Character*. London, New York.
447. ROBACK, A. A., editor. *Problems of Personality*. London, New York.
448. ROBB, A. A. *The Absolute Relations of Time and Space*. Cambridge.

449. ROYCE, J. *The Principles of Logic. (Encyclopaedia of the Philosophical Sciences. Vol. I. Logic.* London, New York.)
450. RUARK, A. E., and UREY, H. C. *Atoms, Molecules and Quanta.* New York.
451. RUEFF, J. *From The Physical to the Social Sciences: Introduction to a Study of Economic and Ethical Theory.* Baltimore.
452. RUSSELL, B. *The Principles of Mathematics.* Cambridge
453. *Our Knowledge of the External World.* Chicago, London.
454. *Mysticism and Logic.* New York London.
455. *Introduction to Mathematical Philosophy.* London, New York.
456. *Introduction to Tractatus Logico-Philosophicus* by Ludwig Wittgenstein. London New York.
457. *The Analysis of Matter.* London, New York.
458. *The A B C of Atoms.* New York.
459. See Whitehead.
460. RUTZLER, J. E. See Bancroft.
461. SANTAYANA, G. *Scepticism and Animal Faith.* New York.
462. SCHILLER, F. C. S. *Riddles of the Sphinx. A Study in the Philosophy of Humanism.* New York, London.
463. SCHLICK, M. *Allgemeine Erkenntnislehre.* Berlin.
464. *Space and Time in Contemporary Physics.* London, New York.
465. SCHRODINGER, E. *Wave Mechanics.* London, Glasgow.
466. *Collected Papers on Wave Mechanics.* London, Glasgow.
467. SENCOURT, R. *The Spanish Crown.* New York.
468. SHAW, J. B. *Lectures on the Philosophy of Mathematics.* Chicago, London.
469. SHEFFER, H. M. A Set of Five Independent Postulates for Boolean Algebras. *Trans. Amer. Math. Soc.* Oct., 1913.
470. *The General Theory of Notational Relativity.* Mimeographed Edition. Harvard. Cambridge, Massachusetts, and *Proc. Sixth Internat. Congress of Philos.* Harvard. Cambridge, Massachusetts.
471. Review of *Principia Mathematica*, 2nd edition Vol. I. *Isis.* Feb., 1926.
472. SHEPPARD, W. F. *From Determinant to Tensor.* London, New York.
473. SHERRINGTON, C. S. *The Integrative Action of the Nervous System.* New York.
474. SIERPINSKI, W. *Leçons sur les nombres transfinis.* Paris.
475. SILBERER, H. *Problems of Mysticism.* New York.
476. SILBERSTEIN, L. *The Theory of Relativity.* London, New York.
477. SMITH, D. E., and MIKAMI, Y. *A History of Japanese Mathematics.* Chicago, London.
478. SMITH, W. B. *Der Vorchristliche Jesus.* Jena.
479. *Ecce Deus.* London.
480. SOMMERFELD, A. *Atomic Structure and Spectral Lines.* London, New York.
481. *Wave-Mechanics.* London, New York.
482. SOMMERVILLE, D. M. Y. *The Elements of Non-Euclidean Geometry.* London, Chicago.
483. SPAULDING, E. G. *The New Rationalism.* New York.
484. SPEARMAN, C. E. *The Nature of 'Intelligence' and the Principles of Cognition.* London.
485. *The Abilities of Man.* London, New York.
486. SPENGLER, O. *The Decline of the West*, 2 vol. New York.
487. STARLING, E. H. *Principles of Human Physiology.* Philadelphia, New York.
488. STEKEL, W. *Conditions of Nervous Anxiety and their Treatment.* London.
489. STEWART, SIR JAMES PURVES. *The Diagnosis of Nervous Diseases.* London.
490. STIEGLITZ, J., editor. *Chemistry in Medicine.* New York.
491. STILES, P. G. *The Nervous System and Its Conservation.* Philadelphia.
492. STORCH, A. *The Primitive Archaic Forms of Inner Experiences and Thought in Schizophrenia.* Washington.
493. STURTEVANT, A. H. See Morgan, T. H.
494. SULLIVAN, H. S. Schizophrenia. Its Conservative and Malignant Features. *Amer. Jour. Psychiat.* July, 1924.
495. The Oral Complex. *Psychoan. Rev.* Jan., 1925.

496. Peculiarity of Thought in Schizophrenia. *Amer. Jour. Psychiat.* July, 1925.
497. Research in Schizophrenia. *Amer. Jour. Psychiat.* Nov. 1929.
498. SULLIVAN, J. W. N. *Three Men Discuss Relativity*. London.
499. SYZ, H. C. Psycho-Galvanic Studies on Sixty-four Medical Students. *Brit. Jour. Psych.* July, 1926.
500. Observations on the Unreliability of Subjective Reports of Emotional Reactions. *Brit. Jour. Psych.* Oct., 1926.
501. Psychogalvanic Studies in Schizophrenia. *Arch. Neur. and Psychiat.* Dec., 1926
502. Observations on Experimental Convulsions with Special Reference to Permeability Changes. *Amer. Jour. Psychiat.* Sept., 1927.
503. On a Social Approach to Neurotic Conditions. *Jour. Nervous and Mental Disease.* Dec., 1927
504. SYZ, H. C., and KINDER, E. F. Electrical Skin Resistance in Normal and in Psychotic Subjects. *Arch. Neur. and Psychiat.* June, 1928.
505. TARSKI, A. Fundamentale Begriffe der Methodologie der deduktiven Wissenschaften. I. *Monatsh. f. Math. und Phys.* B. XXXVII, H. 2. 1930.
506. See Lukaszewicz.
507. THALBITZER, S. *Emotion and Insanity*. London, New York.
508. THOMAS, T. Y. *The Elementary Theory of Tensors*. London, New York.
509. THOMPSON, D'ARCY W. *On Growth and Form*. Cambridge.
510. THOMPSON, S. P. *Calculus Made Easy*. London, New York.
511. THORNDIKE, E. L. *The Original Nature of Man*. New York.
512. *Educational Psychology*, 3 vol. New York.
513. THURSTONE, L. L. *The Nature of Intelligence*. London, New York.
514. TILNEY, F. *The Brain from Ape to Man*. New York.
515. TOLMAN, R. C. *Statistical Mechanics with Applications to Physics and Chemistry*. New York.
516. On the Problem of the Entropy of the Universe as a Whole. *Phys. Rev.* June 15, 1931.
517. Nonstatic Model of Universe with Reversible Annihilation of Matter. *Phys. Rev.* Aug. 15, 1931.
518. TRAMER, M. *Technisches Schaffen Geisteskranker*. Munich, Berlin.
519. Arbeitstherapie. *Schw. Arch. f. Neur. u. Psychiat.* B. XXI, H. 2. 1927.
520. Allgemeine Psychohygiene. *Schw. ZS. f. Hygiene*. 1931.
521. TSCHURPIK, K. *Ludendorff, The Tragedy of a Military Mind*. Boston.
522. TURNBULL, H. W. *The Theory of Determinants, Matrices, and Invariants*. London.
523. TYLER, E. B. *Primitive Culture*. London.
524. UREY, H. C. See Ruark.
525. VAHINGER, H. *The Philosophy of 'As If'*. London, New York.
526. VASILIEV, A. V. *Space Time Motion*. London.
527. The Acquisitions and Enigmas of the Philosophy of Nature. *Proc. Sixth Internal. Congress of Philos.* Harvard. Cambridge, Mass.
528. VEULEN, O. A System of Axioms for Geometry. *Trans. Amer. Math. Soc.* July, 1904.
529. Geometry and Physics. *Science*. Feb. 2, 1923
530. *Analysis Situs*. Coll. Publ. Amer. Math. Soc. New York.
531. VENDRYES, J. *Language*. London, New York.
532. VULLIAMY, C. E., editor. *The Letters of the Tsar to the Tsaritsa, 1914-1917*. New York, London.
533. WAGNER, N. Emission of Rays by Plant Cells. *SS. Science*. June 15, 1928.
534. WASHBURN, M. F. *The Animal Mind*. New York.
535. *Movement and Mental Imagery*. New York
536. WATSON, J. B. *Behavior*. New York.
537. *Psychology from the Standpoint of a Behaviorist*. Philadelphia.
538. WEATHERBURN, C. E. *Elementary Vector Analysis*. London.
539. *Advanced Vector Analysis*. London.
540. WEINSTEIN, A. The Production of Mutations and Rearrangements of Genes by X-rays. *Science*. Apr. 6, 1928.

541. WEISS, P. The Theory of Types. *Mind*. Vol. XXXVII, No. 147. Reprinted as Supplement II in this volume.
542. Relativity in Logic. *Monist*. Oct., 1928.
543. The Nature of Systems. *Monist*. Apr. and July, 1929.
544. Two-Valued Logic. Another Approach. *Ann. Philos.* B. 2, H. 4. 1931.
545. The Metaphysics and Logic of Classes. *Monist*. Jan., 1932.
546. WEYL, H. *Das Kontinuum. Kritische Untersuchungen über die Grundlagen der Analysis*. Leipzig.
547. *Space Time Matter*. London, New York.
548. Über die neue Grundlagenkrise der Mathematik. *Math. ZS.* Vol. 10. 1921.
549. *Consistency in Mathematics*. Rice Inst. Pamphlet. Oct., 1929.
550. *The Theory of Groups and Quantum Mechanics*. London, New York.
551. See Lorentz.
552. WHEELER, W. M. *Ants, Their Structure, Development and Behavior*. New York.
553. *Social Life among the Insects*. New York
554. *The Social Insects*. London, New York.
555. Emergent Evolution of the Social. *Proc. Sixth Internat. Congress of Philos.* Harvard. Cambridge, Mass.
556. *Emergent Evolution and the Development of Societies*. New York.
557. *Demons of the Dust*. New York.
558. WHITE, A. D. *A History of the Warfare of Science with Theology in Christendom*, 2 vol. New York, London.
559. WHITE, W. A. *Outlines of Psychiatry*. Washington.
560. *Foundations of Psychiatry*. Washington.
561. *Principles of Mental Hygiene*. New York, London.
562. *Insanity and the Criminal Law*. New York, London
563. *An Introduction to the Study of the Mind*. Washington.
564. *Essays in Psychopathology*. Washington.
565. *The Meaning of Disease*. Baltimore.
566. The Language of Schizophrenia. *Arch. Neur. and Psychiat.* Oct., 1926.
567. *Medical Psychology*. Washington.
568. A Message from Medical Psychology to General Medicine. *Milwaukee Proc. Postgrad. Med. Asso. N. Amer.* 1931.
569. See Jelliffe.
570. WHITEHEAD, A. N. *Universal Algebra*. I. Cambridge.
571. *An Introduction to Mathematics*. New York London
572. *An Enquiry Concerning the Principles of Natural Knowledge*. Cambridge.
573. *The Concept of Nature*. Cambridge.
574. *The Principle of Relativity with Applications to Physical Science*. Cambridge.
575. *Science and the Modern World*. London, New York.
576. *Symbolism, Its Meaning and Effect*. New York, London.
577. *The Function of Reason*. Princeton.
578. *Process and Reality*. London, New York.
579. WHITEHEAD, A. N., and RUSSELL, B. *Principia Mathematica*, 3 vol. Cambridge.
580. WILDER, H. H. *The Pedigree of the Human Race*. New York.
581. WILLIAMS, F. E. *Adolescence. Studies in Mental Hygiene*. New York
582. WILLIAMS, H. B. Mathematics for the Physiologist and Physician. *Math. Teacher*. Mar., 1920.
583. Mathematics and the Biological Sciences. Gibbs Lecture. *Bull. Amer. Math. Soc.* June, 1927.
584. WILSON, E. B. Logic and the Continuum. *Bull. Amer. Math. Soc.* June, 1908.
585. *Advanced Calculus*. New York, Boston.
586. WILSON, E. B., and GIBBS, J. W. *Vector Analysis*. New York.
587. WILSON, E. B., and LEWIS, G. N. The Space-time Manifold of Relativity. *Proc. Amer. Acad. Arts and Sci.* Nov., 1912.

588. WINDELBAND, W. *The Principles of Logic. (Encyclopaedia of the Philosophical Sciences. Vol. I. Logic.* London, New York.)
589. *A History of Philosophy.* New York, London.
590. WITTGENSTEIN, L. *Tractatus Logico-Philosophicus.* London, New York.
591. WOODWORTH, R. S. *Psychology. A Study of Mental Life.* New York.
592. WUNDT, W. *Elements of Folk Psychology.* London, New York.
593. WUST, J. See Fajans.
594. YEALLAND, L. R. *Hysterical Disorders of Warfare.* London, New York.
595. YERKES, A. W. See Yerkes, R. M.
596. YERKES, R. M. *The Mental Life of Monkeys and Apes.* Behav. Mono. Vol. 3, No. 1. 1916.
597. *Almost Human.* New York.
598. The Mind of a Gorilla. *Gen. Psych. Mono.* Vol. 2. 1927. *Comp. Psych. Mono.* Vol. 5. 1928.
599. YERKES, R. M., and LEARNED, B. W. *Chimpanzee Intelligence and Its Vocal Expression.* Baltimore.
600. YERKES, R. M., and YERKES, A. W. *The Great Apes.* New Haven.
601. YOUNG, J. W. *Lectures on Fundamental Concepts of Algebra and Geometry.* New York, London.
602. YOUNG, J. W. A., editor. *Monographs on Topics of Modern Mathematics.* London, New York.
603. ZAREMBA, S. *La Logique des mathématiques.* Paris.

The following important items in the bibliography have either been omitted by inadvertence, or they appeared after the numbering of the bibliography was completed.

604. BELL, E. T. *Numerology.* Baltimore
605. BRIDGES, C. B. The Genetics of Sex in Drosophila. *Sex and Internal Secretions.* 1932.
606. Apparatus and Methods for Drosophila Culture. *Amer. Naturalist* May June, 1932.
607. ECKART, C. Application of Group Theory to the Quantum Dynamics of Monatomic Systems. *Rev. of Modern Physics.* July, 1930.
608. EDDINGTON, A. S. *The Expanding Universe.* New York, London.
609. GANTT, W. H. *History of Russian Medicine.*
610. HEDRICK, E. R. Tendencies in the Logic of Mathematics. *Science.* Apr. 7, 1933.
611. HUNTINGTON, E. V. New Sets of Independent Postulates for the Algebra of Logic, with Special Reference to Whitehead and Russell's *Principia Mathematica.* *Trans. Amer. Math. Soc.* Jan., 1933.
612. KLEIN, F. *Elementary Mathematics from an Advanced Standpoint.* English Translation. New York, Leipzig.
613. LEATHAM, J. G. *Elements of the Mathematical Theory of Limits.* London, Chicago.
614. LOUCKS, R. B. An Appraisal of Pavlov's Systematization of Behavior from the Experimental Standpoint. *Jour. Comp. Psychology.* Feb. 1933
615. MORGAN, T. H. The Rise of Genetics. *Science.* Sept., 23 and 30, 1932
616. SMITH, H. B. *Symbolic Logic.* Ann Arbor, Michigan (Edwards Bros.).
617. TOLMAN, R. C. Thermodynamics and Relativity. The Gibbs Lecture. *Bull. Amer. Math. Soc.* Febr., 1933.
618. THOMSON, G. P. *The Wave Mechanics of Free Electrons.* New York, London.
619. WHITEHEAD, A. N. *Adventures of Ideas.* New York, London.