THE PUBLICATIONS OF ABRAHAM WALD

1931

{1} "Axiomatik des Zwischenbegriffes in metrischen Räumen," *Wiener Akademischer Anzeiger*, No. 16, pp. 1–3.

{2} "Axiomatik des Zwischenbegriffes in metrischen Räumen," *Math. Ann.*, Vol. 104, pp. 476–484.

{3} "Axiomatik des metrischen Zwischenbegriffes," *Ergebnisse eines Math. Kolloquiums*, Vol. 2, p. 17.

{4} "Über den allgemeinen Raumbegriff," *Ergebnisse eines Math. Kolloquiums*, Vol. 3, pp. 6–11.

{5} "Über das Hilbertsche Axiomensystem der Geometrie," *Ergebnisse eines Math. Kolloquiums*, Vol. 3, pp. 23–24.

1933

{6} "Zur Axiomatik der Verknüpfungsbeziehungen," *Ergebnisse eines Math. Kolloquiums*, Vol. 4, p. 6.

{7} "Zur Axiomatik des Zwischenbegriffes," *Ergebnisse eines Math. Kolloquiums*, Vol. 4, pp. 23–24.

{8} "Über die Volumsdeterminante," *Ergebnisse eines Math. Kolloquiums*, Vol. 4, pp. 25–28.

{9} "Über das Volumen der Euklidischen Simplexe," *Ergebnisse eines Math. Kolloquiums*, Vol. 4, pp. 32–33.

{10} "Halbmetrische Räume und Konvexifizierbarkeit," *Ergebnisse eines Math. Kolloquiums*, Vol. 5, p. 7.

{11} "Vereinfachter Beweis des Steinitzschen Satzes über Vektorenreihen im R_n ," *Ergebnisse eines Math. Kolloquiums*, Vol. 5, pp. 10–13.

{12} "Bedingt konvergente Reihen von Vektoren im R_ω ," *Ergebnisse eines Math. Kolloquiums*, Vol. 5, pp. 13–14.

{13} "Reihen in topologischen Gruppen," *Ergebnisse eines Math. Kolloquiums*, Vol. 5, pp. 14–16.

{14} "Komplexe und indefinite Räume," *Ergebnisse eines Math. Kolloquiums*, Vol. 5, pp. 32–42.

1935

{15} "Über die eindeutige positive Lösbarkeit der neuen Produktionsgleichungen (Mitteilung I)," *Ergebnisse eines Math. Kolloquiums*, Vol. 6, pp. 12–18.

{16} "Über die Anzahl der abgerundeten Mengen," *Ergebnisse eines Math. Kolloquiums*, Vol. 6, p. 26.

{17} "Eine Charakterisierung des Lebesgueschen Masses," *Ergebnisse eines Math. Kolloquiums*, Vol. 6, pp. 27–29.

{18} "Zur Differentialgeometrie der Flächen: I. Eine neue Definition der Flächenkrümmung," *Ergebnisse eines Math. Kolloquiums*, Vol. 6, pp. 29–39.

{19} "Sur la courbure des surfaces," *C. R. Acad. Sci. Paris*, Vol. 201, pp. 918–920.

1936

{20} "Sur la notion de collectif dans le calcul des probabilités," *C. R. Acad. Sci. Paris*, Vol. 202, pp. 180–183.

{21} "Über die Produktionsgleichungen der ökonomischen Wertlehre (Mitteilung II)," *Ergebnisse eines Math. Kolloquiums*, Vol. 7, pp. 1–6.

{22} "Begründung einer koordinatenlosen Differentialgeometrie der Flächen," *Ergebnisse eines Math. Kolloquiums*, Vol. 7, pp. 24–46.

{23} "Über einige Gleichungssysteme der mathematischen Ökonomie," *Zeitschrift für Nationalökonomie*, Vol. 7, pp. 637–670. English translation by Otto Eckstein, "On some systems of equations of mathematical economics," *Econometrica*, Vol. 19 (1951), pp. 368–403.

{24} *Berechnung und Ausschaltung von Saisonschwankungen, Beiträge zur Konjunkturforschung, Vol. 9*, Verlag von Julius Springer, Vienna.

1937

{25} "Ein Streckenbild, für welches λ_φ nicht existiert, obwohl λ_φ für jeden Anfangabschnitt existiert," *Ergebnisse eines Math. Kolloquiums*, Vol. 8, pp. 34–35.

{26} "Die ϕ-Länge im Hilbertschen Raum," *Ergebnisse eines Math. Kolloquiums*, Vol. 8, pp. 36–37.

{27} "Grundsätzliches zur Berechnung des Produktionsindex," *Monatsberichte des Österreichischen Institutes für Konjunkturforschung*, Vol. 11, Appendix 6 of February issue, pp. i–vii.

{28} "Zur Theorie der Preisindexziffern," *Zeitschrift für Nationalökonomie*, Vol. 8, pp. 179–219.

{29} "Die Widerspruchsfreiheit des Kollektivbegriffes der Wahrscheinlichkeitsrechnung," *Ergebnisse eines Math. Kolloquiums*, Vol. 8, pp. 38–72.

{30} "Extrapolation des gleitenden 12-Monatsdurchschnittes," *Monatsberichte des Österreichischen Institutes für Konjunkturforschung*, Vol. 11, Appendix 8 of November issue, pp. i–vii.

1938

{31} "Die Widerspruchsfreiheit des Kollektivbegriffes," *Actualités Scientifiques et Industrielles, No. 735, Colloque Consacré à la Théorie des Probabilités*, Hermann et Cie., Paris, pp. 79–99.

{32} "Generalization of the inequality of Markoff," *Annals of Math. Stat.*, Vol. 9, pp. 244–255.

1939

{33} "Long cycles as a result of repeated integration," *Am. Math. Monthly*, Vol. 46, pp. 136–141.

{34} "Confidence limits for continuous distribution functions" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 10, pp. 105–118.

{35} "Limits of a distribution function determined by absolute moments and inequalities satisfied by absolute moments," *Trans. Am. Math. Soc.*, Vol. 46, pp. 280–306.

{36} "A new formula for the index of cost of living," *Econometrica*, Vol. 7, pp. 319–331.

{37} "Contributions to the theory of statistical estimation and testing hypotheses," *Annals of Math. Stat.*, Vol. 10. pp. 299–326.

1940

{38} "A note on the analysis of variance with unequal class frequencies," *Annals of Math. Stat.*, Vol. 11, pp. 96–100.

{39} "The approximate determination of indifference surfaces by means of Engel curves," *Econometrica*, Vol. 8, pp. 144–175.

{40} "On a test whether two samples are from the same population" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 11, pp. 147–162.

{41} "The fitting of straight lines if both variables are subject to error," *Annals of Math. Stat.*, Vol. 11, pp. 284–300.

1941

{42} "Note on confidence limits for continuous distribution functions" (with J. Wolfo-witz), *Annals of Math. Stat.*, Vol. 12, pp. 118–119.

{43} "Asymptotically most powerful tests of statistical hypotheses," *Annals of Math. Stat.*, Vol. 12, pp. 1–19.

{44} "On the distribution of Wilks' statistic for testing the independence of several groups of variates" (with R. J. Brookner), *Annals of Math. Stat.*, Vol. 12, pp. 137–152.

{45} "On the analysis of variance in case of multiple classifications with unequal class frequencies," *Annals of Math. Stat.*, Vol. 12, pp. 346–350.

{46} "Some examples of asymptotically most powerful tests," *Annals of Math. Stat.*, Vol. 12, pp. 396–408.

1942

{47} *On the Principles of Statistical Inference*, Notre Dame Mathematical Lectures, No. 1, University of Notre Dame.

{48} "Asymptotically shortest confidence intervals," *Annals of Math. Stat.*, Vol. 13, pp. 127–137.

{49} "On the choice of the number of class intervals in the application of the chi-square test" (with H. B. Mann), *Annals of Math. Stat.*, Vol. 13, pp. 306–317.

{50} "Setting of tolerance limits when the sample is large," *Annals of Math. Stat.*, Vol. 13, pp. 389–399.

{51} "On the power function of the analysis of variance test," *Annals of Math. Stat.*, Vol. 13, pp. 434–439.

1943

{52} "An extension of Wilks' method for setting tolerance limits," *Annals of Math. Stat.*, Vol. 14, pp. 45–55.

{53} "On a statistical generalization of metric spaces," *Proc. Nat. Acad. Sci.*, Vol 29, pp. 196–197.

{54} "On the efficient design of statistical investigations," *Annals of Math. Stat.*, Vol 14, pp. 134–140.

{55} *Sequential Analysis of Statistical Data: Theory*, Statistical Research Group, Columbia University.

{56} "On stochastic limit and order relationships" (with H. B. Mann), *Annals of Math. Stat.*, Vol. 14, pp. 217–226.

{57} "On the statistical treatment of linear stochastic difference equations" (with H. B. Mann), *Econometrica*, Vol. 11, pp. 173–220.

{58} "Tests of statistical hypotheses concerning several parameters when the number of observations is large," *Trans. Am. Math. Soc.*, Vol. 54, pp. 426–482.

{59} "An exact test for randomness in the nonparametric case based on serial correlation" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 14, pp. 378–388.

1944

{60} "On a statistical problem arising in the classification of an individual into one of two groups," *Annals of Math. Stat.*, Vol. 15, pp. 145–162.

{61} "Note on a lemma," *Annals of Math. Stat.*, Vol. 15, pp. 330–333.

{62} "On cumulative sums of random variables," *Annals of Math. Stat.*, Vol. 15, pp. 283–296.

{63} "On a statistical generalization of metric spaces," *Rep. Math. Colloq., Notre Dame*, Ser. 2, Vol. 5–6, pp. 76–79.

{64} "Statistical tests based on permutations of the observations" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 15, pp. 358–372.

1945

{65} "Sampling inspection plans for continuous production which insure a prescribed limit on the outgoing quality" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 16, pp. 30–49.

{66} "Statistical decision functions which minimize the maximum risk," *Annals of Mathematics*, Vol. 46, pp. 265–280.

{67} "Generalization of a theorem by v. Neumann concerning zero-sum two-person games," *Annals of Mathematics*, Vol. 46, pp. 281–286.

{68} "Sequential tests of statistical hypotheses," *Annals of Math. Stat.*, Vol. 16, pp. 117–186.

{69} "Sequential method of sampling for deciding between two courses of action," *Jour. Am. Stat. Assn.*, Vol. 40, pp. 277–306.

{70} "Some generalizations of the theory of cumulative sums of random variables," *Annals of Math. Stat.*, Vol. 16, pp. 287–293.

1946

{71} "Tolerance limits for a normal distribution" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 17, pp. 208–215.

{72} "Some improvements in setting limits for the expected number of observations required by a sequential probability ratio test," *Annals of Math. Stat.*, Vol. 17, pp. 466–474.

{73} "Differentiation under the expectation sign in the fundamental identity of sequential analysis," *Annals of Math. Stat.*, Vol. 17, pp. 493–497.

1947

{74} "A review of J. von Neumann and O. Morgenstern, *Theory of Games and Economic Behavior*," *Rev. Econ. Stat.*, Vol. 29, pp. 47–51.

{75} "Limit distribution of the maximum and minimum of successive cumulative sums of random variables," *Bull. Am. Math. Soc.*, Vol. 53, pp. 142–153.

{76} *Sequential Analysis*, John Wiley and Sons.

{77} "Sequential confidence intervals for the mean of a normal distribution with known variance" (with C. Stein), *Annals of Math. Stat.*, Vol. 18, pp. 427–433.

{78} "Foundations of a general theory of sequential decision functions," *Econometrica*, Vol. 15, pp. 279–313.

{79} "An essentially complete class of admissible decision functions," *Annals of Math. Stat.*, Vol. 18, pp. 549–555.

{80} "A note on regression analysis," *Annals of Math. Stat.*, Vol. 18, pp. 586–589.

1948

{81} "Asymptotic properties of the maximum likelihood estimate of an unknown parameter of a discrete stochastic process," *Annals of Math. Stat.*, Vol. 19, pp. 40–46.

{82} "On the distribution of the maximum of successive cumulative sums of independently but not identically distributed chance variables," *Bull. Am. Math. Soc.*, Vol. 54, pp. 422–430.

{83} "Estimation of a parameter when the number of unknown parameters increases indefinitely with the number of observations," *Annals of Math. Stat.*, Vol. 19, pp. 220–227.

{84} "Optimum character of the sequential probability ratio test" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 19, pp. 326–339.

1949

{85} "Bayes solutions of sequential decision problems" (with J. Wolfowitz), *Proc. Nat. Acad. Sci.*, Vol. 35, pp. 99–102.

{86} "On distinct hypotheses" (with Agnes Berger), *Annals of Math. Stat.*, Vol. 20, pp. 104–109.

{87} "Statistical decision functions," *Annals of Math. Stat.*, Vol. 20, pp. 165–205.

{88} "Note on the consistency of the maximum likelihood estimate," *Annals of Math. Stat.*, Vol. 20, pp. 595–601.

{89} "A sequential decision procedure for choosing one of three hypotheses concerning the unknown mean of a normal distribution" (with Milton Sobel), *Annals of Math. Stat.*, Vol. 20, pp. 502–522.

1950

{90} "Bayes solutions of sequential decision problems" (with J. Wolfowitz), *Annals of Math. Stat.*, Vol. 21, pp. 82–89.

{91} "Elimination of randomization in certain problems of statistics and of the theory of games" (with A. Dvoretzky and J. Wolfowitz), *Proc. Nat. Acad. Sci.*, Vol. 36, pp. 256–260.

{92} "Note on the identification of economic relations," *Statistical Inference in Dynamic Economic Models, Cowles Commission Monograph No. 10*, John Wiley and Sons, pp. 238–244.

{93} "Remarks on the estimation of unknown parameters in incomplete systems of equations," *Statistical Inference in Dynamic Economic Models, Cowles Commission Monograph No. 10*, John Wiley and Sons, pp. 305–310.

{94} *Statistical Decision Functions*, John Wiley and Sons.

{95} "Note on zero-sum two-person games," *Annals of Mathematics*, Vol. 52, pp. 739–742.

1951

{96} "Relations among certain ranges of vector measures" (with A. Dvoretzky and J. Wolfowitz), *Pacific Jour. Math.*, Vol. 1, pp. 59–74.

{97} "Elimination of randomization in certain statistical decision procedures and zero-sum two-person games" (with A. Dvoretzky and J. Wolfowitz), *Annals of Math. Stat.*, Vol. 22, pp. 1–21.

{98} "On the fundamental lemma of Neyman and Pearson" (with G. B. Dantzig), *Annals of Math. Stat.*, Vol. 22, pp. 87–93.

{99} "Two methods of randomization in statistics and the theory of games" (with J. Wolfowitz), *Annals of Mathematics*, Vol. 53, pp. 581–586.

{100} "Asymptotic minimax solutions of sequential point estimation problems," *Proceedings of the Second Berkeley Symposium on Mathematical Statistics and Probability*, University of California Press.

{101} "Characterization of the minimal complete class of decision functions when the number of distributions and decision is finite" (with J. Wolfowitz), *Proceedings of the Second Berkeley Symposium on Mathematical Statistics and Probability*, University of California Press.

1952

{102} "Basic ideas of a general theory of statistical decision rules," *Proceedings of the International Congress of Mathematicians*, Harvard University Press.

{103} "On a relation between changes in demand and price changes," *Econometrica*, Vol. 20 (1952), to be published.