## BIBLIOGRAPHY

## Publications of J. L. Doob

1932
[1] The boundary values of analytic functions. Trans. Amer. Math. Soc. 34 153170.
[2] On a theorem of Gross and Iverson. Ann. of Math. 33 753-757.
1933
[3] Systems of algebraic difference equations (with J. F. Ritt). Amer. J. Math. 55 505-514.

1934
[4] The boundary values of analytic functions II. Trans. Amer. Math. Soc. 35 418-451.
[5] Stochastic processes and statistics. Proc. Natl. Acad. Sci. USA 20 376-379.
[6] On analytic functions with positive imaginary parts (with B. O. Koopman). Bull. Amer. Math. Soc. 40 601-605.
[7] Probability and statistics. Trans. Amer. Math. Soc. 36 759-775.
1935
[8] The limiting distributions of certain statistics. Ann. Math. Statist. 6 160-169.
[9] The ranges of analytic functions. Ann. of Math. 36 117-126.
1936
[10] Note on probability. Ann. of Math. 37 363-367.
[11] Statistical estimation. Trans. Amer. Math. Soc. 39 410-421.
1937
[12] Stochastic processes depending on a continuous parameter. Trans. Amer. Math. Soc. 42 107-140.

1938
[13] Stochastic processes with an integral-valued parameter. Trans. Amer. Math. Soc. 44 87-150.
[14] One-parameter families of transformations. Duke Math. J. 4752-774.
1940
[15] On two formulations of the theory of stochastic processes depending upon a continuous parameter (with W. Ambrose). Ann. of Math. 41 737-745.
[16] Regularity properties of certain families of chance variables. Trans. Amer. Math. Soc. 47 455-486.
[17] The law of large numbers for continuous stochastic processes. Duke Math. J. 6 290-306.
[18] Probability as measure. Ann. Math. Statist. 12 206-214.
[19] Discussion of papers on probability theory (with R. V. Mises). Ann. Math. Statist. 12 215-217.
[20] A minimum problem in the theory of analytic functions. Duke Math. J. 8 413-424.

1942
[21] The Brownian movement and stochastic equations. Ann. of Math. 43 351369.
[22] Topics in the theory of Markoff chains. Trans. Amer. Math. Soc. 52 37-64.
[23] What is a stochastic process? Amer. Math. Monthly 49 648-653.
1943
[24] On the spectral analysis of a certain transformation (with R. A. Leibler). Amer. J. Math. 65 263-272.

1944
[25] The elementary Gaussian processes. Ann. Math. Statist. 15 229-282.
1945
[26] Markoff chains-denumerable case. Trans. Amer. Math. Soc. 58 455-473.
1947
[27] Probability in function space. Bull. Amer. Math. Soc. 53 15-30.
1948
[28] On a problem of Marczewski. Colloq. Math. 1 216-217.
[29] Renewal theory from the point of view of the theory of probability. Trans. Amer. Math. Soc. 63 422-438.
[30] Asymptotic properties of Markoff transition probabilities. Trans. Amer. Math. Soc. 63 393-421.

1949
[31] Application of the theory of martingales. In Le Calcul des Probabilités et ses Applications. Colloques Internationaux du Centre National de le Recherche Scientifique 13 23-27. Centre National de la Recherche Scientifique, Paris.
[32] Heuristic approach to the Kolmogorov-Smirnov theorems. Ann. Math. Statist. 20 393-403.
[33] Time series and harmonic analysis. In Proc. Berkeley Symp. Math. Statist. and Probab. (Berkeley, 1945, 1946) 303-343. Univ. California Press, Berkeley, CA.

1951
[34] Continuous parameter martingales. In Proc. Second Berkeley Symp. on Math. Statist. and Probab. (Berkeley, 1950) 269-277. Univ. California Press, Berkeley, CA.

1952
[35] The measure-theoretic setting of probability theory. Ann. Soc. Polon. Math. 25 199-209.

1953
[36] Stochastic Processes. Wiley, New York.
1954
[37] Semimartingales and subharmonic functions. Trans. Amer. Math. Soc. 77 86121.
[38] Limit Distributions for Sums of Independent Random Variables. (Appendix I in Gnedenko-Kolmogorov.) Addison-Wesley, Cambridge, MA.
[39] Present state and future prospects of stochastic process theory. In Proc. Internat. Congr. of Math. (Amsterdam, 1954) 3 348-355. North-Holland, Amsterdam.
[40] Interrelations between Brownian motion and potential theory. In Proc. Internat. Congr. of Math. (Amsterdam, 1954) 3 202-204. North-Holland, Amsterdam.
[41] Martingales and one-dimensional diffusion. Trans. Amer. Math. Soc. 78 168208.
[42] A probability approach to the heat equation. Trans. Amer. Math. Soc. 80 216280.

## 1956

[43] Probability methods applied to the first boundary value problem. In Proc. Third Berkeley Symp. Math. Statist. Prob. (Berkeley, 1954-1955) 2 49-80. Univ. California Press, Berkeley, CA.

1957
[44] La théorie des probabilités et le premier problème des fonctions frontières. Publ. Inst. Statistique Univ. Paris 6 289-290.
[45] Conditional Brownian motion and the boundary limits of harmonic functions. Bull. Soc. Math. France 85 431-458.
[46] Brownian motion on a Green space. Teor. Veroyatnost. i Primenen. 2 3-33.
[47] A new look at the first boundary value problem. In Proceedings of Symposia in Applied Mathematics, Vol. VII 21-33. McGraw Hill, New York. (For the Amer. Math. Soc., Providence, RI.)

1958
[48] Boundary limit theorems for a half-space. J. Math. Pures Appl. 37 385-392.
[49] Probability theory and the first boundary value problem. Illinois J. Math. 2 19-36.

1959
[50] A Markov chain theorem. In Probability and Statistics: The Harald Cramér Volume (Ulf Grenander, ed.) 50-57. Almqvist and Wiksell, Stockholm.
[51] Discrete potential theory and boundaries. J. Math. Mech. 8 433-458; erratum 993.
[52] A relativized Fatou theorem. Proc. Natl. Acad. Sci. USA 45 215-222.
[53] A non-probabilistic proof of the relative Fatou theorem. Ann. Inst. Fourier (Grenoble) 9 293-300.

1960
[54] Applications of boundary theory to sums of independent random variables (with J. L. Snell and R. E. Williamson). In Contributions to Probability and Statistics: Essays in Honor of Harold Hotelling (I. Olkin, S. G. Ghurye, W. Hoeffding, W. G. Madow and H. B. Mann, eds.) 182-197. Stanford Univ. Press, Stanford, CA.
[55] Some problems concerning the consistency of mathematical models. In Information and Decision Processes 27-33. McGraw Hill, New York.
[56] Relative limit theorems in analysis. J. Anal. Math. 8 289-306.
[57] A relative limit theorem for parabolic functions. In Trans. Second Prague Conf. on Information Theory Statist. Decision Functions, and Random Proc. 61-70. Publishing House Czechoslovak Acad. Sci., Prague.

1961
[58] Conformally invariant cluster value theory. Illinois J. Math. 5 521-549.
[59] Notes on martingale theory. In Proc. Fourth Berkeley Symp. Math. Statist. Prob. (Berkeley, 1960) 2 95-102. Univ. California Press, Berkeley, CA.
[60] Appreciation of Khinchin. In Proc. Fourth Berkeley Symp. Math. Statist. Prob. (Berkeley, 1960) 2 17-20. Univ. California Press, Berkeley, CA.

1962
[61] Boundary properties of functions with finite Dirichlet integrals. Ann. Inst. Fourier (Grenoble) 12 573-621.

1963
[62] Cluster values of sequences of analytic functions. Sankhyā Ser. A 25 137148.
[63] A ratio operator limit theorem. Z. Wahrsch. Verw. Gebiete 1 288-294.
[64] One-sided cluster-value theorems. Proc. London Math. Soc. 13 461-470.
[65] Limites angulaires et limites fines (with M. Brelot). Ann. Inst. Fourier (Grenoble) 13 395-415.

1965
[66] Some classical function theory theorems and their modern versions. Ann. Inst. Fourier (Grenoble) 15 113-136. Errata 17 (1967) 469.
[67] Fields, optionality and measurability (with K. L. Chung). Amer. J. Math. 87 397-424.

1966
[68] Applications to analysis of a topological definition of smallness of a set. Bull. Amer. Math. Soc. 72 579-600.
[69] Wiener's work in probability theory. Bull. Amer. Math. Soc. 72 69-72.
[70] Remarks on the boundary limits of harmonic functions. SIAM J. Numer. Anal. 3 229-235.

1967
[71] Applications of a generalized F. Riesz inequality. Rev. Roumaine Math. Pures Appl. 12 1185-1191.

1968
[72] Compactification of the discrete state space of a Markov process. Z. Wahrsch. Verw. Gebiete 10 236-251.
[73] Generalized sweeping-out and probability. J. Funct. Anal. 2 207-225.
1969
[74] An application of stochastic process separability. Enseign. Math. 15 101105.

$$
1970
$$

[75] Contribution to the Herman Wold Festschrift. In Scientists at Work (T. Dalenius, G. Karlsson and S. Malmquist, eds.) 38-39. Almqvist and Wikells, Uppsala.
[76] State spaces for Markov chains. Trans. Amer. Math. Soc. 149 279-305.
[77] Stochastic processes determined by families of continuous functions. In Proc. Internat. Conf. Funct. Anal. Related Topics (Tokyo, 1969) 378-382. Univ. Tokyo Press, Tokyo.
[78] Separability and measurable processes. J. Fac. Sci. Univ. Tokyo 17 297-304.
1971
[79] What is a martingale? Amer. Math. Monthly 78 451-463.
1972
[80] The structure of a Markov chain. In Proc. Sixth Berkeley Symp. Math. Statist. Prob. (Berkeley, 1970) 3 131-141. Univ. California Press, Berkeley, CA.
[81] William Feller and twentieth century probability. In Proc. Sixth Berkeley Symp. Math. Statist. Prob. (Berkeley, 1970) 2 xv-xx. Univ. California Press, Berkeley, CA.

1973
[82] An inequality useful in martingale theory. Sankhyā Ser. A 35 1-4.
[83] Boundary approach filters for analytic functions. Ann. Inst. Fourier (Grenoble) 23 187-213.
[84] What are martingales? Wiadom. Mat. 16 37-50.
1975
[85] Stochastic process measurability conditions. Ann. Inst. Fourier (Grenoble) 25 163-176.
[86] Analytic sets and stochastic processes. In Statistical Inference and Related Topics, Proceedings of a Meeting Held at Indiana Univ. in Bloomington, Indiana, 1974 (Madan Lal Puri, ed.) 1 1-12. Academic Press, New York.

1976
[87] Foundations of probability theory and its influence on the theory of statistics. In On the History of Statistics and Probability, (Proc. Symp. to Celebrate the

Bicentennial of USA Held at Southern Methodist Univ., 1974 (D. B. Owen, ed.) 197-204. Marcel Dekker, New York.

1977
[88] Probability. Proc. Symp. Pure Math. Amer. Math. Soc. at Urbana, 1976. (J. L. Doob, ed.) Proc. Symp. Pure Math. 31. Amer. Math. Soc., Providence, RI. 1980
[89] Classical potential theory and Brownian motion. In Aspects of Contemporary Complex Analysis (Proc. NATO Adv. Study Inst., Univ. Durham, Durham, 1979 (D. A. Brannan and J. G. Clunie, eds.) 147-179. Academic Press, London.

1982
[90] A potential theoretic approach to martingale theory. In Statistics and Probability: Essays in Honor of C. R. Rao (G. Kallianpur, P. R. Krishnaiah and J. K. Ghosh, eds.) 227-231. North-Holland, Amsterdam.

1984
[91] Classical Potential Theory and Its Probabilistic Counterpart. Springer, New York.

1989
[92] Commentary on probability. In A Century of Mathematics in America 2 353354. Amer. Math. Soc., Providence, RI.
[93] Kolmogorov's early work on convergence theory and foundations. Ann. Probab. 17 815-821.

1990
[94] Stochastic Processes. (Reprint of the 1953 original. Wiley Classics Library.) Wiley, New York.

1991
[95] Probability vs. Measure. In Paul Halmos: Celebrating 50 Years of Mathematics (J. Ewing and F. Gehring, eds.) 189-193. Springer, New York.

1994
[96] The development of rigor in mathematical probability (1900-1950). In Development of Mathematics 1900-1950, Proc. of a Conference in Luxembourg, 1992 (J.-P. Pier, ed.) 157-170. Birkhäuser, Basel.
[97] Measure Theory. Graduate Texts in Mathematics 143. Springer, New York.

1678
1996
[98] The development of rigor in mathematical probability (1900-1950). Amer. Math. Monthly 103 586-595.

2001
[99] Classical Potential Theory and Its Probabilistic Counterpart. (Reprint of the 1984 original. Classics in Mathematics.) Springer, Berlin.

