

# Appendix I. Publications of J.E. Moyal

1. (With G. Debedant and P. Wehrlé) Sur les équations aux dérivées partielles que vérifient les fonctions de distributions d'un champ aléatoire (1940), *Comptes Rendus Acad. Sci.*, **210**, 243.
2. (With G. Debedant and P. Wehrlé) Sur l'équivalent hydrodynamique d'un corpuscule aléatoire. Application à l'établissement des équations aux valeurs probables d'un d'fluide turbulent (1940), *Comptes Rendus Acad. Sci.* **210**, 332.
3. Approximate probability distribution function for the sum of two independent variates (1942), *J. R. Statist. Soc.*, **105**, 42.
4. Deformation of rubber-like materials (1944), *Nature*, **153**, 777.
5. Rubber as an engineering material (1944), *J. Inst. Production Engineering*, May issue.
6. (With R. Zdanowich) Some practical applications of rubber dampers for the suppression of torsional vibrations in engine systems (1945), *Proc. Inst. Mechanical Engineers*, **153**, 61.
7. (With W. P. Fletcher) Free and forced vibrations in the measurement of dynamic properties of rubber (1945), *J. Sci. Instruments*, **22**, 167.
8. (With R.N. Hadwin). The measurement of mechanical impedance (1946), in *Sixth International Congress of Applied Mechanics, Paris, 1946*.
9. Quantum mechanics as a statistical theory (1949), *Proc. Camb. Phil. Soc.*, **45**, 99–124.
10. (With M.S. Bartlett) The exact transition probability of quantum-mechanical oscillators calculated by the phase-space method (1949), *Proc. Camb. Phil. Soc.*, **45**, 545–53.
11. Stochastic processes and statistical physics (1949), *J. R. Statist. Soc.* **B 11**, 150–210. (Part of the Symposium on Stochastic Processes together with M.S. Bartlett and D.G. Kendall, held on June 7, 1949).
12. Causality, determinism and probability (1949), *Philosophy*, **24**, 310–17.

13. The distribution of wars in time (1949), *J. R. Statist. Soc. A* **112**, 446–9.
14. The momentum and sign of fast cosmic ray particles (1950), *Phil. Mag.*, **51**, 1058–77.
15. The spectra of turbulence in a compressible fluid: eddy turbulence and random noise (1952), *Proc. Camb. Phil. Soc.*, **48**, 329–44.
16. Theory of ionization fluctuations (1955), *Phil. Mag.*, 1955, **46**, 263–80.
17. (With D.A. Edwards) Stochastic differential equations (1955), *Proc. Camb. Phil. Soc.*, **51**, 663–7.
18. Statistical problems in nuclear and cosmic ray physics (1955), *Bull. Statist. Soc. NSW*, **14**, 4–17.
19. Theory of the ionization cascade (1956), *Nuclear Phys.*, **1**, 180–195.
20. Statistical problems in nuclear and cosmic ray physics (1957), *Bull. Int. Statist. Inst.*, **35**, 199–210.
21. (With D.G. Kendall) On the continuity properties of vector-valued functions of bounded variation. (1957), *Quart. J. Maths*, **8**, 54–7.
22. Discontinuous Markoff processes (1957), *Acta Math.*, **98**, 221–64.
23. (With C.R. Heathcote) The random walk in continuous time and its applications to the theory of queues (1959), *Biometrika*, **46**, 400–11.
24. The general theory of stochastic population processes (1962), *Acta Math.*, **108**, 1–31.
25. Multiplicative population chains (1962), *Proc. Roy. Soc. A* **266**, 518–26.
26. (With S.R. Adke) A birth, death and diffusion process (1963), *J. Math. Anal. Appl.*, **7**, 209–24.
27. Multiplicative population processes (1964), *J. Appl. Prob.*, **1**, 267–83.
28. (With P.J. Brockwell) Exact solutions of one-dimensional scattering problems (1964), *Nuovo Cimento, Series X*, **33**, 776–96.
29. Incomplete discontinuous Markov processes (1965), *J. Appl. Prob.*, **2**, 69–78.
30. A general theory of first-passage distribution in transport and multiplicative processes (1966), *J. Math. Phys.*, **7**, 464–73.

31. (With P.J. Brockwell) A stochastic population process and its application to bubble-chamber measurements (1966), *J. Appl. Prob.*, **3**, 280–4.
32. Multiplicative first-passage processes and transport theory (1967), *SIAM-AMS Proceedings on Transport Theory*, **1**, 191–212.
33. (With P.J. Brockwell) The characterization of criticality for one-dimensional transport processes (1968), *J. Math. Anal. Appl.*, **22**, 25–44.
34. Mean ergodic theorems in quantum mechanics (1969), *J. Math. Phys.*, **10**, 506–9.
35. Particle populations and number operators in quantum theory (1972), *Adv. Appl. Prob.*, **4**, 39–80.
36. (With Y. Avishai and H. Ekstein) Is the Maxwell field local? (1972), *J. Math. Phys.* **13** (8), 1139–45.