Geoffrey R. Grimmett **Written Work**

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1. A theorem about random fields, *Bulletin of London Mathematical Society* 5 (1973) 81–84.
2. A generalization of a theorem of Kleitman and Milner, *Bulletin of London Mathematical Society* 5 (1973) 157–158.
3. (with J. M. Hammersley) Maximal solutions of the generalized subadditive inequality, in *Stochastic Geometry*, ed. E. Harding and D. Kendall, Wiley, 1974, 270–284.
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5. (with C. J. H. McDiarmid) On colouring random graphs, *Mathematical Proceedings of Cambridge Philosophical Society* 77 (1975) 313–324.
6. A non-Markovian birth process with logarithmic growth, *Journal of Applied Probability* 12 (1975) 673–683.
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10. The rank polynomials of large random lattices, *Journal of London Mathematical Society* 18 (1978) 567–575.
11. (with M. Treisman) On taking up position in a group: A continuous-time Markov model for biased random movement, *British Journal of Mathematical and Statistical Psychology* 33 (1980) 247–261.
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16. Critical sponge dimensions in percolation theory, *Advances in Applied Probability* 13 (1981) 314–324.
17. (with D. J. A. Welsh) Flow in networks with random capacities, *Stochastics* 7 (1982) 205–229.
18. (with W.–C. S. Suen) The maximal flow through a directed graph with random capacities, *Stochastics* 8 (1982) 153–159.
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21. (with J. T. Cox) Central limit theorems for associated random variables and the percolation model, *Annals of Probability* 12 (1984) 514–528.
22. (with M. Keane and J. M. Marstrand) On the connectedness of a random graph, *Mathematical Proceedings of Cambridge Philosophical Society* 96 (1984) 151–166.
23. (with H. Kesten) First-passage percolation, network flows and electrical networks, *Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete* 66 (1984) 335–366.
24. (with H. Kesten) Random electrical networks on complete graphs, *Journal of London Mathematical Society* 30 (1984) 171–192.
25. On a conjecture of Hammersley and Whittington concerning bond percolation on subsets of the simple cubic lattice, *Journal of Physics A: Mathematical and General* 18 (1985) L49–L52.
26. (with A. M. Frieze) The shortest-path problem for graphs with random arc-lengths, *Discrete Applied Mathematics* 10 (1985) 57–77.

27. Random flows: network flows and electrical flows through random media, in *Surveys in Combinatorics 1985*, ed. I. Anderson, Cambridge University Press, 1985, 59–96.
28. Large deviations in subadditive processes and first-passage percolation, in *Particle Systems, Random Media, and Large Deviations*, ed. R. Durrett, American Mathematical Society Contemporary Mathematics Series 41, 1985, 175–194.
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35. Interacting particle systems and random media, an overview, *International Statistical Review* 55 (1987) 49–62.
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37. Recent progress in percolation, *Proceedings of First World Congress of Bernoulli Society*, Tashkent 1986, ed. Yu. V. Prohorov and V. V. Sazonov, VNU Science Press, Utrecht, 1987.
38. (with A. Gandolfi and L. Russo) On the uniqueness of the infinite cluster in the percolation model, *Communications in Mathematical Physics* 114 (1988) 549–552.
39. (with M. Dekking) Superbranching processes and projections of random Cantor sets, *Probability Theory and Related Fields* 78 (1988) 335–355.
40. (with J. T. Chayes, L. Chayes, H. Kesten, R. H. Schonmann) The correlation length for the high density phase of Bernoulli percolation, *Annals of Probability* 17 (1989) 1277–1302.
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61. How few cumulants specify a distribution? In Springer Lecture Notes in Mathematics no. 1574, 1994, 242–244.
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63. The stochastic random-cluster model, and the uniqueness of random-cluster measures, *Annals of Probability* 23 (1995) 1461–1510, Special Invited Paper.
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65. Probability theory and phase transition, *Markov Processes and Related Fields* 2 (1996), 51–68.
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2. (with D. J. A. Welsh) *Probability, an Introduction*, Clarendon Press, Oxford, 1986, 211 pp.
3. *Percolation*, Springer–Verlag, New York, 1989, 296 pp.
4. (with D. R. Stirzaker) *Probability and Random Processes*, 2nd edn, Clarendon Press, Oxford, 1992, 541 pp.
5. (with D. R. Stirzaker) *Probability and Random Processes; Problems and Solutions*, Clarendon Press, Oxford, 1992, 366 pp.

Edited volumes

1. (with D. J. A. Welsh) *Disorder in Physical Systems, A Volume in Honour of J. M. Hammersley*, editors, Clarendon Press, Oxford, 1990, 378 pp.
2. *Probability and Phase Transition*, Kluwer, Dordrecht, 1994, 322 pp.

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1. Large deviations in the random sieve, *Mathematical Proceedings of the Cambridge Philosophical Society*.
2. (with Marcelo Piza) Decay of correlations in subcritical Potts and random-cluster models.
3. Percolation and Disordered Systems. Lecture Notes for the St Flour Summer School, 1996, 142 pp. Springer-Verlag, Berlin.
4. (with J. van den Berg and R. Schinazi) A locally dependent percolation model for an epidemic.
5. (with Carol Bezuidenhout) A central limit theorem for random walks in random labyrinths. In preparation.
6. (with Carol Bezuidenhout and Armin Löffler) Percolation analysis of minimal cost spanning trees. In preparation.

Unpublished articles

1. *Critical phenomena in percolation theory*, 6 pp.; lecture delivered to *1976 European Meeting of Statisticians* (of no current interest).
2. *Central limit theorems in percolation theory*, 12 pp. (containing an alternative approach to some of the results of Cox and Grimmett (1981)).

3. (with H. Kesten) *Random electrical networks on complete graphs*; *Proofs*, 86 pp. (containing the proofs of theorems stated in Grimmett and Kesten 'Random electrical networks on complete graphs').

Published summaries and short communications

1. Markov fields and Gibbs states on finite graphs, *Tagungsberichte Oberwolfach* 28, Statistical Mechanics, 1973.
2. Random graph theorems, *1974 European Meeting of Statisticians*, Prague, 78–79.
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4. Critical phenomena in percolation processes, *American Mathematical Society Abstracts* (1980) 1, 144, 773–60–8.
5. Distributional limits for random graphs, *1981 European Meeting of Statisticians*, Wrocław, 36.
6. Multiparameter central limit theorems and the percolation model, *44th Session of the International Statistical Institute*, Madrid, 1983, 893–895.
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11. Interacting-particle systems and random networks I–IV, *Mark Kac seminar in probability and physics*, Syllabus 1985–1987, ed. F. den Hollander and H. Maassen, CWI Syllabus 17, Amsterdam.
12. Physics in probability: particle processes and random media, *Proceedings of the 20th Iranian Mathematical Conference*, 1989.
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14. Local changes and global effects for spatial processes, *Tagungsberichte Oberwolfach* 12, Mathematical Stochastics, 1990.
15. Percolation and the geometry of random fractals, *Bulletin of the IMS*, 1990.
16. What is the genus of a random graph? In *Random Graphs* 2, ed. A. M. Frieze, Wiley, 1992.
17. Random walk and electrical resistance in the presence of disorder, Summaries of talks at Marseille Conference on Mathematical Physics of Disordered Media, 1992.
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21. Percolation in random-cluster processes, *Bulletin of the IMS*, 22, 1993, p. 37.
22. Critical phenomena in spatial stochastic models, Tagungsbericht 21/1994 Oberwolfach, editor.

Reviews

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Theses

1. *A review of Markov fields on finite graphs*, M.Sc. dissertation, University of Oxford, 1972, 49 pp.
2. *Random fields and random graphs*, D.Phil. thesis, University of Oxford, 1974, 149 pp.