

**Books**

- B1. (with D. R. Stirzaker) *Probability and Random Processes*
- First edition, Clarendon Press, Oxford, 1982, 354 + ix pp.
  - Second edition, greatly extended and revised, Clarendon Press, Oxford, 1992, 541 + xii pp.
  - Third edition, greatly extended and revised, Oxford University Press, Oxford, 2001, 596 + xii pp.
- B2. (with D. J. A. Welsh) *Probability, an Introduction*
- Clarendon Press, Oxford, 1986, 211 + ix pp.
  - Japanese translation, 2004.
- B3. *Percolation*
- First edition, Springer-Verlag, New York, 1989, 296 + xi pp.
  - Second edition, greatly extended and revised, ‘Grundlehren der Mathematischen Wissenschaften’ no. 321, Springer-Verlag, Heidelberg, 1999, 444 + xiii pp.
- B4. (with D. R. Stirzaker) *Probability and Random Processes: Problems and Solutions*, Clarendon Press, Oxford, 1992, 366 + x pp.
- B5. (with E. Giné and L. Saloff-Coste) *Lectures on Probability Theory and Statistics*, Springer-Verlag, Heidelberg, ‘Lecture Notes in Mathematics’ no. 1665, 1996. See paper [68] below.
- B6. (with D. R. Stirzaker) *One Thousand Exercises in Probability*, Oxford University Press, 2001, 438 + x pp.
- B7. *The Random-Cluster Model*
- First edition, ‘Grundlehren der Mathematischen Wissenschaften’ no. 333, Springer-Verlag, Heidelberg, 2006, 377 + xiii pp.
  - Corrected second printing, 2009.
- B8. *Probability on Graphs*, IMS Textbooks no. 1, Cambridge University Press, 2010, 247 + xii pp.,  
<http://www.statslab.cam.ac.uk/~grg/books/pgs.html>.

**Edited volumes**

- E1. (with D. J. A. Welsh) *Disorder in Physical Systems, A Volume in Honour of J. M. Hammersley*, Clarendon Press, Oxford, 1990, 378 pp. Now available at  
<http://www.statslab.cam.ac.uk/~grg/books/jmh.html>
- E2. *Probability and Phase Transition*, Kluwer, Dordrecht, 1994, 322 pp. Now available at  
<http://www.statslab.cam.ac.uk/~grg/books/nato93.html>
- E3. (with K. Golden, R. James, G. Milton, P. Sen) *Mathematics of Multiscale Materials*, IMA Volumes in Mathematics and its Applications, vol. 99, Springer, New York, 1998, 280 pp.
- E4. (with C. J. H. McDiarmid) *Combinatorics, Complexity, and Chance, A Tribute to Dominic Welsh*, Oxford University Press, Oxford, 2007, 310 + x pp.

**Published articles**

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.
4. Random graph theorems, *Transactions of 7th Prague Conference on Information Theory and Related Topics*, 1974, 203–209.
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.
7. An upper bound for the number of spanning trees of a graph, *Discrete Mathematics* 16 (1976) 323–324.
8. On the number of clusters in the percolation model, *Journal of London Mathematical Society* 13 (1976) 346–350.
9. Multidimensional lattices and their partition functions, *Oxford Quarterly Journal of Mathematics* 29 (1978) 142–157.
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.

12. A linear cell-size dependent branching process, *Stochastic Processes and their Applications* 10 (1980) 105–113.
13. Random labelled trees and their branching networks, *Journal of Australian Mathematical Society A* 30 (1980) 229–237.
14. On the differentiability of the number of clusters per vertex in the percolation model, *Journal of London Mathematical Society* 23 (1981) 372–384.
15. (with J. T. Cox) Central limit theorems for percolation models, *Journal of Statistical Physics* 25 (1981) 237–251.
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.
19. Bond percolation on subsets of the square lattice, and the threshold between one-dimensional and two-dimensional behaviour, *Journal of Physics A: Mathematical and General* 16 (1983) 599–604.
20. Random graphs, in *Selected Topics in Graph Theory II*, ed. L. Beineke and R. Wilson, Academic Press, London, 1983, 201–235.
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.
29. Random spatial processes in physics: particle systems and random media, *Bulletin of the International Statistical Institute* (1985) 27.2.
30. (with W. Pulleyblank) Random near-regular graphs and the node packing problem, *Operations Research Letters* 4 (1985) 169–174.
31. Electrical networks with random resistances, in *Random Graphs '83*, ed. M. Karoński and A. Ruciński, Annals of Discrete Mathematics 28, North-Holland, Amsterdam, 1985, 125–136.
32. The largest components in a random lattice, *Studia Scientiarum Mathematicarum Hungarica* 20 (1985) 325–331.
33. An exact threshold theorem for random graphs and the node-packing problem, *Journal of Combinatorial Theory B* 40 (1986) 187–195.
34. Percolation processes and dimensionality, in *Stochastic Spatial Processes*, ed. P. Tautu, Springer Lecture Notes in Mathematics no. 1212, 1986, 165–174.
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36. Long paths and cycles in a random lattice, in *Random Graphs '85*, ed. M. Karoński and Z. Palka, Annals of Discrete Mathematics 33, North-Holland, Amsterdam, 1987, 69–76.
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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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43. (with C. Bezuidenhout) The critical contact process dies out, *Annals of Probability* 18 (1990) 1462–1482, Special Invited Paper.
44. Statistics of sieves and square-free numbers, *Journal of London Mathematical Society* 43 (1991) 1–11.
45. (with K. J. Falconer) The critical point of fractal percolation in three and more dimensions, *Journal of Physics A: Mathematical and General* 24 (1991) L491–L494.
46. (with C. Bezuidenhout) Exponential decay for subcritical contact and percolation processes, *Annals of Probability* 19 (1991) 984–1009.
47. (with M. Aizenman) Strict monotonicity of critical points in percolation and ferromagnetic models, *Journal of Statistical Physics* 63 (1991) 817–835.
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51. (with K. J. Falconer) On the geometry of random Cantor sets and fractal percolation, *Journal of Theoretical Probability* 5 (1992) 465–486; correction in volume 7 (1994) 209–210.
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55. Random graphical networks, in *Networks and Chaos—Statistical and Probabilistic Aspects*, ed. O. E. Barndorff-Nielsen et al., Chapman and Hall, London, 1993, 288–301.
56. (with P. J. Donnelly) On the asymptotic distribution of large prime factors, *Journal of London Mathematical Society* 47 (1993) 395–404.
57. (with C. Bezuidenhout and H. Kesten) Strict inequality for critical values of Potts models and random-cluster processes, *Communications in Mathematical Physics* 158 (1993) 1–16.
58. Percolative problems, in *Probability and Phase Transition*, ed. G. R. Grimmett, Kluwer, Dordrecht, 1994, 69–86.
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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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69. (with M. Piza) Decay of correlations in subcritical Potts and random-cluster models, *Communications in Mathematical Physics* 189 (1997) 465–480.
70. (with J. van den Berg and R. Schinazi) Dependent random graphs and spatial epidemics, *Annals of Applied Probability* 8 (1998) 317–336.

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72. (with A. Stacey) Critical probabilities for site and bond percolation models, *Annals of Probability* 26 (1998) 1788–1812.
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74. Inequalities and entanglements for percolation and random-cluster models, in *Perplexing problems in Probability, Festschrift in Honor of Harry Kesten*, ed. M. Bramson and R. Durrett, 1999, 91–106, Birkhäuser.
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80. (with H. Kesten) Random electrical networks on complete graphs II: Proofs, (2001) 51pp., <http://arxiv.org/abs/math.PR/010768>
81. (with P. Hiemer) Directed percolation and random walk, in *In and Out of Equilibrium*, ed. V. Sidoravicius, Birkhäuser Boston, 2002, 273–297.
82. (with G. Gielis) Rigidity of the interface in percolation and random-cluster models, *Journal of Statistical Physics* 109, 1–37 (2002).
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86. (with S. Janson, P. Scudo) Weak limits for quantum random walks, *Physical Review E*, 69 (2004) Paper 026119.
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93. (with D. J. A. Welsh) John Michael Hammersley (1920–2004), *Biographical Memoirs of Fellows of the Royal Society* 53 (2007) 163–183; reprinted in *Bulletin of the London Mathematical Society* 41 (2009) 1125–1143.
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105. (with B. Graham) Sharp thresholds for the random-cluster and Ising models, *Annals of Applied Probability* 21 (2011) 240–265.
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**Awaiting publication** (available via <http://www.statslab.cam.ac.uk/~grg/>)

- P1. (with A. E. Holroyd) Lattice embeddings in percolation, *Annals of Probability*.
- P2. (with A. E. Holroyd) Geometry of Lipschitz percolation, *Annales de l'Institut Henri Poincaré, Probabilités et Statistiques*.
- P3. (with I. Manolescu) Inhomogeneous bond percolation on square, triangular, and hexagonal lattices.
- P4. European apportionment via the Cambridge Compromise.
- P5. (with F. Pukelsheim and K.-F. Oelbermann) A power-weighted variant of the EU27 Cambridge Compromise.
- P6. (with I. Manolescu) Universality for bond percolation in two dimensions.

### Reviews etc

Book reviews in scientific journals, the *Alpine Journal*, and elsewhere, and reviews in *Mathematical Reviews* and *Zentralblatt für Mathematik*. Photographs in sports and mathematics journals and newspapers.

### 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.