

Roger Kingdon's Publication List

Classified or Commercial-in-Confidence documents have not been included in this list.

1. R D Kingdon and A W Herbert, 'The NAPSAC lattice modelling option (Release 1A)', *Harwell report AERE R13100* (1988).
2. R D Kingdon and R C Ball, 'The fractal dimension of clouds', *Harwell report AERE R13217* (1988).
3. R D Kingdon, K J Rawlings and S T Morris, 'Modelling of MOSFET inversion layer conductivity using the resistor network method', *Harwell report AERE M3708* (1988).
4. R D Kingdon, 'RADWIFE user manual (Release 1)', *Harwell report AERE R13569* (1989).
5. R D Kingdon, 'TGIN language reference manual: RADWIFE commands', *Harwell report AERE R13570* (1989).
6. R D Kingdon, 'A feasibility study on the application of lattice gas hydrodynamics to environmental problems', *Harwell report TP1334* (1989).
7. J E Bolt, P J Bourke, R D Kingdon, D M Pascoe and V M B Watkins, 'Water flow and solute transport through fractured rock', *Nirex report NSS/R148* (1990) and a contribution to *Proceedings of the Geoval-90 symposium on validation of geosphere flow and transport models*, SKI/OECD (1990).
8. K A Cliffe, R D Kingdon, P Schofield and P J Stopford, 'Lattice gas simulation of free boundary flows', *Physica D* **47** 275-280 (1991).
9. T Plesser, R D Kingdon and K H Winters, 'The simulation of chemical waves in excitable reaction-diffusion-convection systems by finite difference and finite element methods', *AEA Technology report* (1991) and a contribution to A V Holden (ed.), *Nonlinear wave processes in excitable media*, Plenum Press (1991).
10. R D Kingdon, 'Lattice gas simulation of channel flow', *AEA Technology report* (1991).
11. R D Kingdon, 'Stochastic network analysis of fluid flow in fractured rock', *AEA Technology report* (1991) and *Nirex report NSS/R231* (1991).
12. R D Kingdon, P Schofield and P J Stopford, 'Modelling of vehicle exhaust plumes using lattice gas methods: A feasibility study', *AEA Technology report* (1991).
13. R D Kingdon, P Schofield and L White, 'A lattice Boltzmann model for the simulation of fluid flow', *AEA Technology report* (1991) and *Journal of Physics A* **25** 3559-3566 (1992).
14. R D Kingdon, P Schofield, P J Stopford and L White, 'Modelling nitrogen dioxide generation from vehicle exhaust emissions using the lattice Boltzmann method', *AEA Technology report* (1991) and *DoE Air Quality Division report AQR/9192/36* (1992).
15. R D Kingdon and P Schofield, 'A reaction-flow lattice Boltzmann model', *AEA Technology report* (1991) and *Journal of Physics A* **25** L907-L910 (1992).
16. G W Lanyon, R D Kingdon and A W Herbert, 'The application of a three-dimensional fracture network model to a hot-dry-rock reservoir', *AEA Technology report* (1992) and a contribution to J R Tillerson and W R Wawersik (eds.), *Rock Mechanics*, Balkema (1992).
17. J E Bolt, P J Bourke, N L Jefferies, R D Kingdon, D M Pascoe and V M B Watkins, 'Validation of modelling of flow through fractured rocks', *Nirex report NSS/R281* (1992).
18. N L Jefferies, P N Kellas and R D Kingdon, 'Analysis of measurements of transient flow through shallow fractured rock', *Nirex report NSS/R284* (1992).
19. R D Kingdon, 'Implementation of a lattice Boltzmann fluid flow algorithm on the MasPar MP-1 massively parallel computer', *AEA Technology report* (1992).

20. R D Kingdon, 'A lattice Boltzmann algorithm for heat transport in fluids', *AEA Technology report* (1992).
21. R D Kingdon, 'A review of lattice Boltzmann techniques for the simulation of fluid flow', *AEA Technology report* (1992).
22. I J Ford, R D Kingdon and L W Smith, 'Analysis of material extrusion: Progress in establishing a model', *AEA Technology report* (1993).
23. R D Kingdon, 'Nitrogen dioxide generation from vehicle exhaust emissions: A review of experimental and modelling results', *AEA Technology report* (1993).
24. R D Kingdon, 'A lattice BGK model for mimicking the Navier-Stokes equation for fluid flow in two dimensions', *AEA Technology report* (1993).
25. I J Ford, R D Kingdon and W J Worraker, 'A fluid flow model of metal extrusion applied to the CONFORM process', *AEA Technology report* (1994).
26. H M Barr, C Checkley, R D Kingdon, M McDonagh, W A McKay and C L Rose, 'Environment Protection Strategy: Karachi Port', *AEA Technology report* (1994).
27. C E Johnson, R D Kingdon, C Marizy, R Rameroson and A Strand, 'Impact of aircraft NO_x on the atmosphere: A comparison of the results from three two-dimensional chemical transport models', *Annales Geophysicae* **13** (1995).
28. C E Johnson and R D Kingdon, 'The 2D chemistry model TROPOS', contribution to U Schumann (ed.), *AERONOX: The impact of NO_x emissions from aircraft upon the atmosphere at flight altitudes 8-15km*, EC-DLR publication on research related to aeronautics and environment (1995).
29. D S Lee and R D Kingdon, 'The global distribution of NO_x emissions from aircraft and lightning in the troposphere: A comparative analysis', *AEA Technology report* (1995).
30. G D Hayman, R D Kingdon, J A Garland and I J Ford, 'Power station plume visibility', *AEA Technology report* (1996).
31. G D Hayman, I J Ford, R D Kingdon, C E Johnson and D S Stevenson, 'Pollution from aircraft emissions in the North Atlantic corridor (POLINAT)', *AEA Technology report* (1996).
32. R D Kingdon, 'TRACK v1.0 user manual', *AEA Technology report* (1997).
33. I J Ford, G D Hayman and R D Kingdon, 'Plume and aerosol modelling for the POLINAT project', contribution to *EC report EUR 16978 EN* (1997).
34. G D Hayman and R D Kingdon, 'Acid condensation and the influence of flyash in a power station plume', *AEA Technology report* (1997).
35. D S Lee, C Halliwell, J A Garland, G J Dollard and R D Kingdon, 'Exchange of ammonia at the sea surface: A preliminary study', *Atmospheric Environment* **32** 431-439 (1998).
36. D S Lee, R D Kingdon, J M Pacyna, A F Bouwman and I Tegen, 'Modelling base cations in Europe: Sources, transport and deposition of calcium', *Atmospheric Environment* **33** 2241-2256 (1998).
37. D S Lee and R D Kingdon, 'Modelling acid deposition across Europe: Deposition in 1990 and 2010', *DERA report DERA/AS/PTD/TR990469* (1999).
38. D S Lee, E Nemitz, D Fowler, P Hill, S Clegg and R D Kingdon, 'Sources, sinks and levels of atmospheric mercury in the UK', *DERA report DERA/AS/PTD/CR000114* (2000).

39. D S Lee, R D Kingdon, M E Jenkin and J A Garland, 'Modelling the atmospheric oxidised and reduced nitrogen budgets for the UK with a Lagrangian multi-layer long-range transport model', *AEA Technology report* (1997) and *Environmental Modeling and Assessment* **5** 83-104 (2000).
40. D S Lee, R D Kingdon, M E Jenkin and T Webster, 'Modelling the contribution of different sources of sulphur to atmospheric deposition in the United Kingdom', *AEA Technology report* (1997) and *Environmental Modeling and Assessment* **5** 105-118 (2000).
41. D S Lee, R D Kingdon, J A Garland and B M R Jones, 'Parameterisation of the orographic enhancement of precipitation and deposition in a long-term, long-range transport model', *AEA Technology report* (1997) and *Annales Geophysicae* **18** 1447-1466 (2000).
42. R D Kingdon, 'FAST v1.0 user manual', *DERA report* (2000).
43. D S Lee and R D Kingdon, 'Modelling long-term trends in UK sulphur deposition', *DERA report DERA/AS/PTD/TR990468* (1999) and *Physics and Chemistry of the Earth* **26** 813-817 (2001).
44. D S Lee and R D Kingdon, 'Modelling the UK reduced nitrogen budget', *DERA report DERA/AS/PTD/TR990510* (1999) and *Physics and Chemistry of the Earth* **26** 819-824 (2001).
45. D S Lee, E Nemitz, D Fowler and R D Kingdon, 'Modelling atmospheric mercury transport and deposition across Europe and the UK', *Atmospheric Environment* **35** 5455-5466 (2001).
46. Drijejana, D S Lee, R D Kingdon, D W Raper and I L Gee, 'Modelling acid deposition in the UK at a scale of 5km by 5km', *Water, Air and Soil Pollution* **130** 319-324 (2001).
47. Drijejana, D W Raper, D S Lee, R D Kingdon and I L Gee, 'Wet deposition to an upland area of England in 1988 and 1999: Measurements and modelling', *Water, Air and Soil Pollution* **130** 1625-1630 (2001).
48. D J Hall, R D Kingdon, A M Spanton, I H Griffiths, M Hargrave, S Walker and C John, 'The UDM: A puff model for estimating dispersion in urban areas', *Proceedings of the 7th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, Belgirate, Italy (2001).
49. I H Griffiths, J M Hargrave, R I Sykes, S F Parker, R Gordon and R D Kingdon, 'Development of an integrated urban-scale and longer-range dispersion modelling capability', *Proceedings of the 5th Annual George Mason University Transport and Dispersion Modelling Workshop*, George Mason University, Fairfax, Virginia, USA (2001).
50. N V Beck, I H Griffiths, D J Hall, M Hargrave, C D Jones, R D Kingdon, A M Spanton, D C H Strickland and C Walker, 'The Probabilistic Urban Dispersion Model (PUDM)', *Proceedings of the AMS 4th Symposium on the Urban Environment*, Norfolk, Virginia, USA (2002).
51. I H Griffiths, D R Brook, D J Hall, A Berry, R D Kingdon, K L Clawson, C Biltoft, J M Hargrave, C M Clem, D C H Strickland and A M Spanton, 'Urban Dispersion Model (UDM) Validation', *Proceedings of the AMS 4th Symposium on the Urban Environment*, Norfolk, Virginia, USA (2002).
52. R D Kingdon, 'Probabilistic Urban Dispersion Model', *Dstl report Dstl/TR03927* (2002).
53. D R Brook, N V Beck, C M Clem, D C H Strickland, I H Griffiths, D J Hall, R D Kingdon and J M Hargrave, 'Validation of the Urban Dispersion Model (UDM)', *Proceedings of the 8th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes* (2002).
54. R D Kingdon, M S Laver, C Murphy and R D Webber, 'Sensor Network Technology Demonstrator', *First Joint Conference on Battle Management for NCBR Defense*, Williamsburg, Virginia, USA (2002), and *ES2002 Artificial Intelligence Conference*, Cambridge, UK (2002).
55. R D Kingdon, 'Atmospheric dispersion modelling in support of civil emergency operations', *Health Protection Agency Annual Conference*, Warwick, UK (2003), *HPA Chemical Hazards and*

- Poisons Division Annual Conference*, Cardiff, UK (2003), and *IMA Conference on Analysing Conflict and its Resolution*, Oxford, UK (2004).
56. R D Kingdon, 'Modelling the atmospheric dispersion of toxic agents', *Dstl report Dstl/CP08404* (2004).
 57. R D Kingdon, 'The Urban Dispersion Model (UDM)', *Dstl report Dstl/CP10520* (2004).
 58. R D Kingdon, 'Dispersion and modelling of the spread of chemical warfare agents', chapter 3 of T C Marrs, R L Maynard and F R Sidell (eds.) *Chemical warfare agents: Toxicology and treatment, 2nd edition*, Wiley (2007).
 59. R D Kingdon, 'Principia Intellegentia – The principles governing human and machine intelligence', Allied Publishers (2009).
 60. R D Kingdon, 'Multi-agent simulation of different human societies', *Imperial College ISO report* (2009).
 61. R D Kingdon, 'A review of cognitive architectures', *Imperial College ISO report* (2009).
 62. R D Kingdon, 'Anytime planning for advanced agent behaviour', *Imperial College MSc dissertation* (2009).
 63. R D Kingdon, 'Information Superiority SANDBOX strategy', *Dstl report Dstl/TR56242* (2011).
 64. R D Kingdon, 'How to Make a Mind', Brown Dog Books (2015).
 65. R D Kingdon, 'The Origin of the Kingdons', Brown Dog Books (2017).