

STEPHEN B. POPE

LIST OF PUBLICATIONS

(Updated September 22, 2017)

Books

1. S.B. Pope (2000) *"Turbulent Flows,"* Cambridge University Press.

Published Research Articles

1. S.B. Pope (1975) *"A more general effective-viscosity hypothesis,"* Journal of Fluid Mechanics, **72**, 331-340.
2. S.B. Pope (1976) *"The probability approach to the modeling of turbulent reacting flows,"* Combustion and Flame, **27**, 299-312.
3. S.B. Pope and J. H. Whitelaw (1976) *"The calculation of near-wake flows,"* Journal of Fluid Mechanics, **73**, 9-32.
4. S.B. Pope (1977) *"The implications of the probability equations for turbulent combustion models,"* Combustion and Flame, **29**, 235-246.
5. S.B. Pope (1978) *"The calculation of turbulent recirculating flows in general orthogonal coordinates,"* Journal of Computational Physics, **26**, 197-217.
6. S.B. Pope (1978) *"An explanation of the turbulent round-jet/plane-jet anomaly,"* American Institute of Aeronautics and Astronautics Journal, **16**, 279-281.
7. S.B. Pope (1979) *"The statistical theory of turbulent flames,"* Philosophical Transactions of the Royal Society of London A, **291**, 529-568.
8. S.B. Pope (1979) *"The relationship between the probability approach and particle models for reaction in homogeneous turbulence,"* Combustion and Flame, **35**, 41-45.
9. S.B. Pope (1979) *"A rational method of determining probability distributions in turbulent reacting flows,"* Journal of Non-Equilibrium Thermodynamics, **4**, 309-320.
10. S.B. Pope (1980) *"Probability distributions of scalars in turbulent shear flows,"* Turbulent Shear Flows **2**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 7-16.
11. S.B. Pope (1981) *"Monte Carlo calculations of premixed turbulent flames,"* Proceedings of the Combustion Institute, **18**, 1001-1010.
12. S.B. Pope (1981) *"A Monte Carlo method for the PDF equations of turbulent reactive flow,"* Combustion Science and Technology, **25**, 159-174.
13. S.B. Pope (1981) *"Transport equation for the joint probability density function of velocity and scalars in turbulent flow,"* Physics of Fluids, **24**, 588-596.

14. S.B. Pope (1982) "*The application of PDF transport equations to turbulent reactive flows,*" Journal of Non-Equilibrium Thermodynamics, **7**, 1-14.
15. S.B. Pope (1982) "*Calculations of velocity-scalar joint PDF's,*" Turbulent Shear Flows **3**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 113-123.
16. S.B. Pope (1982) "*An improved turbulent mixing model,*" Combustion Science and Technology, **28**, 131-145.
17. S.B. Pope (1983) "*Consistent modeling of scalars in turbulent flows,*" Physics of Fluids, **26**, 404-408.
18. S.B. Pope (1983) "*A Lagrangian two-time probability density function equation for inhomogeneous turbulent flows,*" Physics of Fluids, **26**, 3448-3450.
19. P. Givi, W.A. Sirignano and S.B. Pope (1984) "*Probability calculations for turbulent jet flows with mixing and reaction of NO and O₃,*" Combustion Science Technology, **37**, 59-78.
20. T.V. Nguyen and S.B. Pope (1984) "*Monte Carlo calculations of turbulent diffusion flames,*" Combustion Science and Technology, **42**, 13-45.
21. S.B. Pope (1984) "*Calculations of a plane turbulent jet,*" American Institute of Aeronautics and Astronautics Journal, **22**, 896-904.
22. S.B. Pope and M.S. Anand (1985) "*Flamelet and distributed combustion in premixed turbulent flames,*" Proceedings of the Combustion Institute, **20**, 403-410.
23. M.S. Anand and S.B. Pope (1985) "*Diffusion behind a line source in grid turbulence,*" Turbulent Shear Flows **4**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 46-61.
24. S.B. Pope (1985) "*PDF methods for turbulent reactive flows,*" Progress in Energy and Combustion Science, **11**, 119-192.
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26. S.B. Pope and D.C. Haworth (1986) "*The mixing layer between turbulent fields of different scales,*" Turbulent Shear Flows **5**, Eds. F. Durst et al., Springer-Verlag, Berlin, 44-53.
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29. M.S. Anand and S.B. Pope (1987) "*Calculations of premixed turbulent flames by pdf methods,*" Combustion and Flame, **67**, 127-142.
30. D.C. Haworth and S.B. Pope (1987) "*Monte Carlo solutions of a joint pdf equation for turbulent flows in general orthogonal coordinates,*" Journal of Computational Physics, **72**, 311-346.

31. D.C. Haworth and S.B. Pope (1987) "*A pdf modelling study of self-similar turbulent free shear flow*," Physics of Fluids, **30**, 1026-1044.
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54. S.B. Pope and Y.L. Chen (1990) "*The velocity-dissipation pdf model for turbulent flows*," Physics of Fluids A, **2**, 1437-1449.
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62. S.S. Girimaji and S.B. Pope (1992) "*Propagating surfaces in isotropic turbulence*," Journal of Fluid Mechanics **234**, 247-277.
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