References

1 Ward-Smith, A. J. *Internal fluid flow.* Clarendon Press, Oxford, 1980

2 Schubauer, G. B. and Spangenberg, W. G. Effect of screens in wide-angle diffusers, National Advisory Committee for Aeronautics, TN No 1610, 1948

3 Mehta, R. D. The aerodynamic design of blower tunnels with wide-angle diffusers. *Prog. Aerospace Sci.*, 1977, **18**, 59–120

4 EP2. Industrial Gas Cleaning Institute Specifications, USA, 1973

5 Reynolds, A. J. and Page, J. R. Unpublished work, 1980

6 Sahin, B. Flow control in a wide-angle diffuser using perforated plates. *PhD Thesis*, Department of Mechanical Engineering, Brunel University, UK, 1985

7 Sahin, B. and Ward-Smith, A. J. The measurement of air flow characteristics using a five hole pitot probe in conjunction with a microcomputer. *Trans. Inst. Measurement and Control*, 1985, 7(3), 110–116

8 Gibson, D. J. *Geometric air flow models: practice and experience.* Research-Cantrell, Inc, Bound Brook, New Jersey, 1975

9 Renau, L. R., Johnston, J. P. and Kline, S. J. Performance and design of straight, two-dimensional diffusers. *Trans. ASME, Ser. D.*, 1967, **89**, 141–150

10 Bradshaw, P. *Topics in applied physics, Vol 12.* Springer-Verlag, Berlin, Heidelberg and New York, 1976

11 Cervantes de Gortari, J. C. and Goldschmidt, V. W. The apparent flapping motion of a turbulent plane jet, further experimental results. *J. Fluid Eng.*, 1981, **103**, 119–126

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