

Bibliography

1. Ackers, P., White, W. R., Perkins, J. A., Harrison, A. J. (1978). *Weirs and Flumes for Flow Measurement*. New York: John Wiley and Sons, Inc.
2. *Aerodynamic Design of Axial-Flow Compressors—Volumes, I, II and III*, NACA R.M. E56B03, 1956.
3. ASME Research Committee on Fluid Meters (1961). *Flowmeter Computation Handbook*. New York: The American Society of Mechanical Engineers.
4. Albertson, M. L., Barton, J. R., Simons, D. B. (1960). *Fluid Mechanics for Engineers*. Englewood Cliffs, NJ: Prentice-Hall.
5. Allen, J. (1952). *Scale Models in Hydraulic Engineering*. London: Longmans, Green and Co. Ltd.
6. Abbot, I. H. (1932). *The Drag of Two Streamline Bodies as Affected by Protuberances and Appendages*, NACA Report. 451.
7. Allen, R. P., Butter, E. A. (1967). An axial flow reversing gas turbine for marine propulsion. *Trans. ASME, Journal of Basic Power*, Jan.
8. Anderson, L. R., et al. (1970). Axisymmetric one-dimensional compressible flow-theory and application. 37(4), *Trans. ASME series E*, Dec.
9. *Air Compressor Handbook*. Caterpillar Tractor Co., 1969.
10. Alleman, M., Walther, R. *Centrifugal Compressors for Special Applications*. Sulzer Technical Review, Reprint.
11. Alley, D. G., Mathieson, G. C. R. (1951). *A Method of Performance Estimation for Axial-Flow Turbines*, R and M 2974.
12. Atkins, P. W. (1984). *The Second Law*. New York: Scientific American Library.

13. Bridgman, P. (1931). *Dimensional Analysis*. New Haven, Conn: Yale University Press.
14. Bolz, R. E., True, G. L. (1973). *Handbook of Tables for Applied Engineering Science*. Chemical Rubber Company.
15. Bradshaw, P. (1964). *Experimental Fluid Mechanics*. New York: Pergamon Press.
16. Bernoulli, D. (1968). Hydrodynamics. In: Bernoulli, J., Camody, T., Kobus, H., ed. *Hydraulics*. New York: Dover Publications, Inc.
17. Beckwith, T. G., Buck, N. L. (1961). *Mechanical Measurements*. Reading, Mass: Addison-Wesley.
18. Baumeister, T., Marks, L. S. (1967). *Standard Handbook for Mechanical Engineers*. 7th ed. New York: McGraw Hill.
19. Binder, R. C. (1958). *Advanced Fluid Mechanics*. Vol. 1. Prentice-Hall.
20. Bright, R. H. (1945). The development of gas turbine power plants for traction purposes. *Proc. Inst. Mech. Eng., E*.
21. Bowen, J. T., Sabersky, R. H., Rannic, W. D. (1951). Investigation of axial flow compressors. *Trans. ASME* 73.
22. Brigg, S. L., Hawthorne, W. R. (1950). Some exact solutions of the flow through annular cascade discs. *J. Aeronaut. Sci.* 17.
23. Batchelor, G. K. (1967). *An Introduction to Fluid Dynamics*. Cambridge: Cambridge University Press.
24. Barter, E. F., King, H. W. (1976). *Handbook of Applied Hydraulics*. 6th ed. New York: McGraw Hill Book Co.
25. Bogdonoff, S. M. (1948). NACA cascade data for the blade design of high performance axial flow compressors. *J. Aeronaut. Sci*, Feb.
26. Bullock, R. O., Wilcox, W. W., Moses, J. J. (1946). *Experimental and Theoretical Studies of Surging in Continuous Flow Compressors*, NACA Report No. 861.
27. Csanady, G. T. (1946). *Theory of Turbomachines*. McGraw-Hill.
28. Church, F. E. (1950). *Steam Turbines*. McGraw-Hill.
29. Cohen, H, White, E. M. (1943). *The Theoretical Determination of the Three-dimensional Flow in an Axial Compressor with Special Reference to Constant Reaction Blading*. A.R.C. Report, 6842.
30. Carmichael, A. D. (1958). *Stall Propagation in Compressors*. Ph.D. Thesis, Cambridge University.
31. Carter, A. D. S. (1957). *The Effect of Reynolds Number on the Performance of a Single-Stage Compressor*. Aeronautical Research Council, R and M. 3184.
32. Cocrell, D. J., Markland, E. (1963). Review of incompressible diffuser flow. *Aircraft Eng.* 35(10):286–292.
33. Church, A. H. (1944). *Centrifugal Pumps and Blowers*. New York: John Wiley and Sons, Inc.
34. Clauuser, F. H. (1956). The turbulent boundary layer. *Advances in Applied Mechanics*. Vol. 4. New York: Pergamon Press.
35. Cheshire, L. J. (1945). The design and development of centrifugal compressors for aircraft gas turbines. *Proc. Inst. Mech. Eng.* 153:426–440.
36. Came, P. M. (1978). The development, application and experimental evaluation of a design procedure for centrifugal compressors. *Proc. Inst. Mech. Eng.* 192(5):49–67.

37. Constant, H. (1945). The early history of the axial type of gas turbine engine. *Proc. Inst. Mech. Eng.* 153, W.E.P. No. 12.
38. Daily, J. W. (1950). Hydraulic machinery. In: Rouse, H., ed. *Engineering Hydraulics*. New York: John Wiley and Sons, Inc.
39. Daugherty, R. L. (1915). *Centrifugal Pumps*. New York: McGraw-Hill Book Company.
40. Daugherty, R. L., Franzini, J. B. (1957). *Fluid Mechanics with Engineering Applications*. New York: McGraw Hill Book Company.
41. Daily, J. W., Harleman, D. R. F. (1966). *Fluid Dynamics*. Reading, Mass: Addison-Wesley Publishing Company.
42. Ennis, W. D. (1912). *Applied Thermodynamics for Engineers*. 3rd ed. New York: D. Van Nostrand.
43. Eckert, E. R. G., Drake, R. M. (1972). *Analysis of Heat and Mass Transfer*. New York: McGraw-Hill Book Co.
44. Fox, R. W., Kline, S. J. (1961). Flow regimes in curved subsonic diffusers. *Trans. ASME* 84D:303–316.
45. Fujie, K. (1962). A study of the flow through the rotor of an axial flow compressor. *Bull. J.S.M.E.* 5:18.
46. Fielding, D., Topps, J.E.C. (1959) *Thermodynamic Data for the Calculation of Gas Turbine Performance*. H.M.S.O., A.R.C., R and M., No 3099.
47. Ferguson, T. B. (1963). *The Centrifugal Compressor Stage*. Butterworths Scientific Publishing Company.
48. Freeman, C., Stow, P. *The application of computational fluid mechanics to aero gas turbine compressor design and development*. Inst. Mech. Engineers. Conference Publications, (1984-3), C70/84.
49. Goldstein, S. (1965). *Modern Development in Fluid Dynamics*. New York: Dover Publications Inc.
50. Gastelow, J. P. (1964). *Potential Flow Through Cascades—A Comparison Between Exact and Appropriate Solutions*, A.R.C.C.P. 808.
51. Gastelow, J. P., Horlock, J. H., Marsh, H. (1968). Recent Developments in the Aerodynamic Design of Axial Flow Compressors, *Proc. Inst. Mech. Eng.* 1833N
52. Horlock, J. H. (1963). Annulus wall boundary layers in axial flow compressor stages. *Trans. A.S.M.E.* 85D(1):55.
53. Horlock, J. H., Dixon, S. L. (1965). The Off Design Performance of Free Vortex Turbine and Compressor Stages. A.R.C. 27:612.
54. Horlock, J. H. (1966). *Axial Flow Turbines*. Butterworths Scientific Publication.
55. Howell, W. T. (1963). Approximate three-dimensional flow theory for axial turbomachines. *Aeronaut. Q.* 14:125.
56. Hydraulic Institute (1975). *Standards of the Hydraulic Institute*. 13th ed. New York: Hydraulic Institute.
57. Herbert, M. V. (1980). *A Method of Performance Prediction for Centrifugal Compressors*, H.M.S.O., A.R.C., R and M. No. 3840.
58. Hicks, T. G. (1958). *Pump Operation and Maintenance*. New York: McGraw Hill Book Company.

59. Hydraulic Institute, 1969. *Hydraulic Institute Standards*. 12th ed. New York: Hydraulic Institute.
60. Holman, J. P. (1971). *Experimental Methods for Engineers*. New York: McGraw-Hill Book Company.
61. Hickox, G. H. (1952). Hydraulic Models. In: Davis, C. V., ed. *Handbook of Applied Hydraulics*. 2nd ed. New York: McGraw-Hill Book Company.
62. Horlock, J. H. (1960). Losses and efficiencies in axial-flow turbines. *Int. J. Mech. Eng. Sci.* 2:48–75.
63. Hunsaker, J. C., Rightmire, B. G. *Engineering Applications of Fluid Mechanics*. Pergamon Press.
64. Howell, A. R. (1945). Fluid dynamics of axial compressors and design of axial compressors. *Proc. Inst. Mech. Eng.* 153:441–452.
65. Hawthorne, W. R., Ringros, J. *Actuator Disc Theory of the Incompressible Flow in Free Vortex*.
66. Kerrebrack, J. L. (1981). Flow in transonic compressors. *A.I.A.A. J.* 19:4–19.
67. Kacker, S. C., Okapuu, U. (1981). *A Mean Line Prediction Method for Axial Flow Turbine Efficiency*, A.S.M.E. Paper 21-GT-58.
68. Kearton, W. J. (1926). *Turbo Blowers and Compressors*. London: Sir Issac Pitman and Sons Ltd.
69. Keller, C. (1937). *Performance of Axial Flow Fans*. New York: McGraw-Hill Book Co.
70. Kramer, J. J., Stanitz, J. D. (1953). *A Note on Secondary Flow in Rotating Radial Channels*, NACA T.N. 301.
71. Keratin, W. J. (1962). *Steam Turbines Theory and Practice*. London: The English Language Book Society.
72. King, H. W., Brater, E. F. (1963). *Handbook of Hydraulics*. 5th ed. New York: McGraw-Hill.
73. King, R. C., Crocker, S. (1967). *Piping Handbook*. 5th ed. New York: McGraw-Hill.
74. Lamb, H. (1945). *Hydrodynamics*. 6th ed. New York: Dover Publications.
75. Liang hear, H. L. (1951). *Dimensional Analysis and Theory of Models*. New York: John Wiley and Sons, reprint by kreiger.
76. Louis, J. F. (1957). Stalling Phenomena in Axial-Flow Compressors. Ph.D. Thesis, Cambridge University.
77. Loeb, W. A. (1949). A study of the supersonic axial flow compressors. *J. Appl. Mech.* 16.
78. Lighthill, M. (1945). *A Mathematical Method of Cascade Design*, ARC R and M No. 2104.
79. Lazar Kiewics, S., Troskolanski, A. T. (1965). *Impeller Pumps*. Pergamon Press, pp. 410–411.
80. Li, W. H., Lam, S. H. (1964). *Principles of Fluid Mechanics*. Reading, Mass: Addison-Wesley Publishing Company Inc.
81. Moody, L. F., Zowski, T. (1969). Hydraulic machinery. In: Davis, C. V., Sorensen, K. E., eds. *Handbook of Applied Hydraulics*. Sec. 26. McGraw-Hill, 26–76.
82. McNally, W. D., Sockol, P. M. (1985). Review of computational methods for internal flows with emphasis on turbomachinery, *Trans. A.S.M.E. J. Fluids Eng.* 107:6–22.

83. Mallinson, D. H., Lewis, W. G. E. (1948). The part load performance of various gas turbine engine schemes. *Inst. Mech. Eng.* 159:198–219.
84. Mattingley, J. D., Heiser, W. H., Daley, D. H. (1987). *Aircraft Engine Design*. AIAA Education Series.
85. Marble, F. E. (1948). The flow of a perfect fluid through an axial turbomachine with predescribed blade loading. *J. Aeronaut. Sci.*, Aug.
86. Marble, F. E., Michelson, I. (1951). *Analytical Investigation of Some Three Dimensional Flow Problems in Turbomachines*, NACA T.N. 2614.
87. Moulton, E. S., Pearson, H. (1951). The relative merits of centrifugal and axial compressors for aircraft gas turbines. *J. Aeronaut. Soc.* 55.
88. Norrie, D. H. (1963). *Incompressible Flow Machines*. American Elsevier, 1006.
89. Naehlizba, M. In: Mayer, Tr. C., Evans, A.G., ed. *Hydraulic Turbines, Their Design and Equipment*. Prague, R.A.: Artia.
90. Dates, G. C. (1984). *Aerothermodynamics of Gas Turbine and Rocket Propulsion*. AIAA Education Series.
91. Ostuka, S. (1956). *A Theory of the Secondary Flow in Cascades*. Transportation Tech. Research Inst. Rep. No. 15.
92. Pearson, H. (1953). The Aerodynamics of Compressor Blade Vibration. London: Anglo American Aeronautical Conference Royal Aeronautical Society.
93. Pearson, H., Bowmer, T. (1949). Surging in axial compressors. *Aeronaut. Q.*, Nov.
94. Prandtl, L., Tietjens, O. G. (1934). *Fundamentals of Hydro and Aeromechanics*. New York: McGraw-Hill.
95. Prandtl, L. (1950). *Essentials of Fluid Dynamics*. London: Blacie and Son.
96. Railly, J. W. (1951). The flow of an incompressible fluid through an axial turbomachine with any number of rows. *Aeronaut. Q.* 3.
97. Rannie, W. D., Bowon, J. J., Sabersky, R. H. (1951). Investigations of axial flow compressors. *Trans. A.S.M.E.* 73.
98. Rannie, W. D., Iura, T. (1954). Experimental investigations of propagating stall in axial flow compressors. *Trans. A.S.M.E.* 76.
99. Rhoden, P. (1944). *Investigation of Axial Flow Fans*, NACA T.M. 1062.
100. Robinson, E. L. (1928). Report on reheat factors. *Mech. Eng.* 50:154.
101. Rouse, H., ed. (1950). *Engineering Hydraulics*. New York: John Wiley and Sons Inc.
102. Rouse, H., et al. (1959). *Advanced Mechanics of Fluids*. New York: John Wiley and Sons Inc.
103. Streeter, V. L., ed. (1961). *Handbook of Fluid Dynamics*. New York: McGraw-Hill Book Company.
104. Shames, I. (1962). *Mechanics of Fluids*. New York: McGraw-Hill Book Company.
105. Shapiro, A. H. (1953). *The Dynamics and Thermodynamics of Compressible Fluid Flow*. Vols. 1 & 2. New York: The Ronald Press Company.
106. Sorensen, H. A. (1951). *Gas Turbines*. New York: The Ronald Press Company.
107. Spahrake, W. (1934). *Centrifugal Pumps, Turbines and Propellers*. Cambridge, Mass: The Technology Press of the Massachusetts Institute of Technology.
108. Stepanoff, A. J. (1957). *Centrifugal and Axial Flow Pumps*. 2nd ed. New York: John Wiley and Sons Inc.

109. Shepherd, D. C. (1956). *Principles of Turbomachinery*. London: The Macmillan Company.
110. Thomson, P. A. (1971). *Compressible Fluid Dynamics*. New York: McGraw-Hill Book Co.
111. Valentine, H. R. (1980). *Applied Hydrodynamics*. 2nd ed. New York: John Wiley and Sons Inc.
112. Van Wylen, G. J., Sonntag, R. E. (1978). *Fundamentals of Classical Thermodynamics*. New York: John Wiley and Sons, Inc.
113. Wood, M. D., Horlock, J. H., Armstrong, E. K. (1953). *Experimental Investigations of the Stalled Flow in a Single Stage Axial Compressor*, ARC Report No. 17280.
114. Wu, C. H. (1953). *Subsonic Flow of Air Through a Single Stage and Seven Stage Compressor*, NACA T.N. 2961.
115. Yalin, M. S. (1971). *Theory of Hydraulic Models*. London: The Macmillan Company.
116. Wilson, D. G. (1984). *Design of High Efficiency Turbomachinery and Gas Turbines*. MIT Press.
117. Zamansky, M. W. (1937). *Heat and Thermodynamics*. New York: McGraw-Hill.
118. Zucrow, M. J. (1958). *Aircraft and Missile Propulsion*. Vols. 1 & 2. New York: John Wiley and Sons. Inc.