

# Fluid Mechanics Books List

This is a compilation of popular fluid mechanics books

1. Acheson, D. J., [Elementary Fluid Dynamics](#), Clarendon Press, Oxford (1990).
2. Ahmed, N., [Fluid Mechanics](#), Engineering Press (1987).
3. Alexandrou, A. N., [Principles of Fluid Mechanics](#), Prentice Hall, NJ (2001).
4. Aris, R., [Vectors, Tensors, and the Basic Equations of Fluid Mechanics](#), Prentice Hall, Englewood Cliffs, NJ (1962).
5. Batchelor, G. K., [Theory of Homogeneous Turbulence](#), Cambridge Univ. Press, Cambridge, UK (1953).
6. Batchelor, G. K., [An Introduction to Fluid Dynamics](#), Cambridge Univ. Press, Cambridge, UK (1967).
7. Bennet, A., [Lagrangian Fluid Dynamics](#), Cambridge Univ. Press, Cambridge (2006).
8. Bertin, J. J., [Engineering Fluid Mechanics](#), Prentice Hall, NJ (1984).
9. Bird, R. B., W. E. Stewart, and E. N. Lightfoot, [Transport Phenomena](#), 2nd ed., John Wiley, New York (2006).
10. Birkhoff, G., [Hydrodynamics](#), Princeton Univ. Press, New Jersey (1953).
11. Bloomer, J. J., [Practical Fluid Mechanics for Engineering Applications](#), Marcel Dekker, New York (1999).
12. Bober, W. and R. A. Kenyon, [Fluid Mechanics](#), Wiley, New York (1980).
13. Bradshaw, P., [An Introduction to Turbulence and its Measurement](#), Pergamon Press, Oxford (1971).
14. Bradshaw, P., T. Cebeci, and J. H. Whitelaw, [Engineering Calculation Methods for Turbulent Flow](#), Academic Press, New York (1981).
15. Brodkey, R. S., [The Phenomena of Fluid Motions](#), Brodkey Publishing (2004).
16. Brower Jr., W., [Primer in Fluid Mechanics](#), CRC Press, New York (1999).
17. Cannon, J. R. and B. K. Shivamoggi, (ed.), [Mathematical and Physical Theory of Turbulence](#), Chapman & Hall/CRC Press, New York (2006).
18. Cebeci, T. and P. Bradshaw, [Momentum Transfer in Boundary Layers](#), Hemisphere, Washington DC (1977).

19. Cebeci, T. and A. M. O. Smith, [Analysis of Turbulent Boundary Layers](#), Academic Press, New York (1974).
20. Cengel, Y. A. and J. M. Cimbala, [Fluid Mechanics: Fundamentals and Applications](#), 3rd ed., McGraw-Hill, New York (2014).
21. Chandrashekhar, S., [Hydrodynamic and Hydromagnetic Stability](#), Dover Publications, New York (1981).
22. Chen, C.-J. and S-Y. Jaw, [Fundamentals of Turbulence Modeling](#), Taylor & Francis (1998).
23. Cheremisinoff, N. P., [Practical Fluid Mechanics for Engineers and Scientists](#), CRC Press, New York (1990).
24. Chorin, A. J., [Vorticity and Turbulence](#), Applied Mathematical Sciences, Vol 103, Springer-Verlag (1994).
25. Chorin, A. J. and J. E. Marsden, [A Mathematical Introduction to Fluid Mechanics](#), 3rd ed., Springer-Verlag (1993).
26. Chorlton, F., [Textbook of Fluid Dynamics](#), D. Van Nostrand (1967).
27. Churchill, S. W., [Viscous Flows - The Practical Use of Theory](#), Butterworth Publishers, Stoneham, MA (1988).
28. Cimbala, J. M. and Y. A. Cengel, [Essentials of Fluid Mechanics](#), McGraw-Hill, New York (2006).
29. Elger, D. F., B. A. LeBret, C.T. Crow, and J. A. Robertson, [Engineering Fluid Mechanics](#), 11th ed., John Wiley, New York (2016).
30. Currie, I. G., [Fundamental Mechanics of Fluids](#), 3rd ed., CRC Press, New York (2002).
31. Daily, J. W. and D. R. F. Harleman, [Fluid Dynamics](#), Addison-Wesley, Reading, MA (1966).
32. Darby, R., [Chemical Engineering Fluid Mechanics](#), 2nd ed., Marcel Dekker, Inc., New York (2001).
33. Daugherty, R. L., J. B. Franzini, and E. J. Finnemore, [Fluid Mechanics with Engineering Applications](#), 9th ed., McGraw-Hill, New York (1997).
34. Davidson, P. A., [Turbulence: An Introduction for Scientists and Engineers](#), Oxford Univ. Press, (2004).
35. Douglas, J. F., J. M. Gasiorek, J. A. Swaffield, and L. B. Jack, [Fluid Mechanics](#), 5th ed., Prentice Hall, NJ (2006).

36. Drazin, P. G., [Introduction to Hydrodynamic Stability](#), Cambridge Univ. Press, London (2002).
37. Drazin, P. G. and W. H. Reid, [Hydrodynamic Stability](#), Cambridge Univ. Press, London (1981).
38. Duncan, W. J., A. S. Thom, and A. D. Young, [An Elementary Treatise on the Mechanics of Fluids](#), 2nd ed., Arnold, London (1970).
39. Emanuel, G., [Analytical Fluid Dynamics](#), 2nd ed., CRC Press, New York (2000).
40. Evans, H., [Laminar Boundary Layers](#), Addison-Wesley, Reading, MA (1968).
41. Faber, T. E., [Fluid Dynamics for Physicists](#), Cambridge Univ. Press, London (1995).
42. Fay, J. A., [Introduction to Fluid Mechanics](#), MIT Press (1994).
43. Finnemore, E. J. and J. B. Franzini, [Fluid Mechanics with Engineering Applications](#), 10th ed., McGraw-Hill, New York (2017).
44. Fomin, V. M. and S. P. Kiselev, [Foundations of Fluid Mechanics with Applications](#), Jaico Publishing House (2005).
45. Fox, R. W. and A. T. McDonald, [Introduction to Fluid Mechanics](#), 6th ed., John Wiley, New York (2004).
46. Friedlander, S. and D. Serre (eds.), [Handbook of Mathematical Fluid Dynamics](#), Elsevier B.V., Amsterdam (2004).
47. Frisch, U., [Turbulence](#), Cambridge Univ. Press (1996).
48. Gallavotti, G., [Foundations of Fluid Dynamics](#), Springer (2005).
49. Garde, R. J., [Fluid Mechanics through Problems](#), Wiley (1989).
50. Gerhart, P. M., R. J. Gross, and J. I. Hochstein, [Fundamentals of Fluid Mechanics](#), Addison-Wesley, Reading, MA (1992).
51. Gerhart, A. L., J. I. Hochstein, and P. M. Gerhart, [Munson, Young and Okiishi's Fundamentals of Fluid Mechanics](#), 9th ed., Wiley (2020).
52. Goldstein, S. (ed.), [Lectures on Fluid Mechanics](#), John Wiley, New York (1960).
53. Goldstein, S. (ed.), [Modern Developments in Fluid Dynamics](#), Dover Publications, New York (1965).
54. Graebel, W. P., [Engineering Fluid Mechanics](#), Taylor & Francis (2001).
55. Graebel, W. P., [Advanced Fluid Mechanics](#), Academic Press, New York (2007).
56. Granet, I., [Fluid Mechanics for Engineering Technology](#), Prentice Hall, NJ (1981).
57. Granger, R. A., [Fluid Mechanics](#), 2nd ed., Dover Publications, New York (1995).

58. Greenspan, H. P., [The Theory of Rotating Fluids](#), Cambridge Univ. Press, Cambridge, UK (1968).
59. Guyon, E., J.-P. Hulin, L. Petit, and C. D. Mitescu, [Physical Hydrodynamics](#), Oxford Univ. Press (2001).
60. Hansen, A. G., [Fluid Mechanics](#), Wiley, New York (1967).
61. Happel, J. and H. Brenner, [Low Reynolds Number Hydrodynamics](#), Prentice Hall, NJ (1965).
62. Hinze, J. O., [Turbulence](#), 3rd ed., McGraw-Hill, New York (1987).
63. Holland, F. A. and R. Bragg, [Fluid Flow for Chemical Engineers](#), 2nd ed., Edward Arnold, London (1995).
64. Hughes, W. F., [An Introduction to Viscous Flow](#), Hemisphere, New York (1979).
65. Hughes, W. F. and J. A. Brighton, [Schaum's Outline of Fluid Dynamics](#), 3rd ed., McGraw-Hill, New York (1999).
66. Janna, W. S., [Introduction to Fluid Mechanics](#), 3rd ed., William S. Janna (1993).
67. Jog, C. S., [Fluid Mechanics](#), 2nd ed., Narosa Publishing House (2007).
68. John, J. E. A. and W. L. Haberman, [Introduction to Fluid Mechanics](#), 3rd ed., Prentice-Hall, NJ (1988).
69. Johnson, R. W., [The Handbook of Fluid Dynamics](#), CRC Press/Springer-Verlag (1998).
70. Joseph, D. D., [Stability of Fluid Motions](#), I and II, Springer-Verlag, New York (1976).
71. Joseph, D. D. and Y. Renardy, [Fundamentals of Two-Fluid Dynamics. Part 1: Mathematical Theory and Applications](#), Springer-Verlag, New York (1993).
72. Joseph, D. D. and Y. Renardy, [Fundamentals of Two-Fluid Dynamics. Part 2: Lubricated Transport, Drops and Miscible Liquids](#), Springer-Verlag, New York (1993).
73. Kambe, T., [Elementary Fluid Mechanics](#), World Scientific Publishing (2007).
74. Karamcheti, K., [Principles of Ideal-Fluid Aerodynamics](#), Wiley, New York (1966).
75. Kaufmann, W., [Fluid Mechanics](#), McGraw-Hill, New York (1979).
76. Khan, I. A., [Fluid Mechanics](#), Oxford Univ. Press (1987).
77. King, R. P., [Introduction to Practical Fluid Flow](#), Butterworth-Heinemann (2002).
78. Kiselev, S. P., E. V. Vorozhtsov, and V. M. Fomin, [Foundations of Fluid Mechanics with Applications: Problem Solving Using Mathematica](#), Springer-Verlag (1999).
79. Kleinstreuer, C., [Engineering Fluid Dynamics: An Interdisciplinary Systems Approach](#), Cambridge Univ. Press, Cambridge, UK (1997).

80. Krause, E., [Fluid Mechanics](#), Springer, New York (2005).
81. Kreider, J., [Principles of Fluid Mechanics](#), Allyn & Bacon (1985).
82. Kundu, P. K., I. M. Cohen, and D. R. Dowling, [Fluid Mechanics](#), 6th ed., Academic Press (2015).
83. Ladyzhenskaya, O. A., [The Mathematical Theory of Viscous Incompressible Flow](#), 2nd ed., Gordon & Breach (1969).
84. Lagerstrom, P. A., [The Laminar Flow Theory](#), Princeton Univ. Press (1996).
85. Lamb, H., [Hydrodynamics](#), 6th ed., Dover Publications, New York (1945).
86. Landahl, M. T. and E. Mollo-Christensen, [Turbulence and Random Processes in Fluid Mechanics](#), Cambridge Univ. Press, London (1986).
87. Landau, L. D. and E. M. Lifshitz, [Fluid Mechanics](#), 3rd ed., Pergamon Press, London (1966).
88. Langlois, W. E., [Slow Viscous Flow](#), Macmillan, New York (1964).
89. Launder, B. E. and D. B. Spalding, [Lectures in Mathematical Models of Turbulence](#), Academic Press, New York (1972).
90. Leal, L. G., [Advanced Transport Phenomena: Fluid Mechanics and Convective Transport Processes](#), Cambridge Univ. Press (2007).
91. Lesieur, M., [Turbulence in Fluids](#), Kluwer Academic Publishers, New York (1990).
92. Leslie, D. C., [Developments in the Theory of Turbulence](#), Clarendon Press, Oxford (1973).
93. Li, W. H. and S. H. Lam, [Principles of Fluid Mechanics](#), Addison-Wesley, Reading, MA (1964).
94. Lin, C. C., The [Theory of Hydrodynamic Stability](#), Cambridge Univ. Press, Cambridge (1955).
95. Lighthill, M. J., [An Informal Introduction to Theoretical Fluid Mechanics](#), Clarendon Press, Oxford, England (1986).
96. Marshall, J. S., [Inviscid Incompressible Flow](#), John Wiley & Sons (2001).
97. Massey, B. S. and J. Ward-Smith, [Mechanics of Fluids](#), 9th ed., CRC Press (2019).
98. Mathieu, J. and J. Scott, [An Introduction to Turbulent Flow](#), Cambridge Univ. Press, Cambridge, UK (2000).
99. McComb, W. D., [The Fluid Turbulence](#), Oxford Univ. Press, UK (1992).
100. Meyer, R., [Introduction to Mathematical Fluid Dynamics](#), Wiley, New York (1971).

101. Middleman, S., [An Introduction to Fluid Dynamics](#), Wiley, New York (1997).
102. Milne-Thompson, L. M., [Theoretical Hydrodynamics](#), 5th ed., Macmillan, New York (1968).
103. Monin, A. S. and A. M. Yaglom, [Statistical Fluid Mechanics](#), Dover Publications, New York (2007).
104. Mott, R. L., [Applied Fluid Mechanics](#), 6th ed., Prentice Hall, NJ (2006).
105. Munson, B. R., D. F. Young, and T. H. Okiishi, [Fundamentals of Fluid Mechanics](#), 5th ed., Wiley, New York (2005).
106. Muralidhar, K. and G. Biswas, [Advanced Engineering Fluid Mechanics](#), 2nd ed., Narosa Publ. House, New Delhi (2005).
107. Nakayama Y. and R. F. Boucher, [Introduction to Fluid Mechanics](#), Arnold Publishers (1998).
108. Nunn, R. H., [Intermediate Fluid Mechanics](#), Taylor & Francis (1989).
109. Ockendon, H. and J. R. Ockendon, [Viscous Flow](#), Cambridge Univ. Press, London (1995).
110. Oleinik, O. and V. Samokhin, [Mathematical Models in Boundary Layer Theory](#), Chapman & Hall (1999).
111. Olson, R. M. and S. J. Wright, [Essentials of Engineering Fluid Mechanics](#), Harper-Collins College Div. (1990).
112. O'Neill, M. E. and F. Chorlton, [Ideal and Incompressible Fluid Dynamics](#), Ellis Horwood, Chichester (1986).
113. O'Neill, M. E. and F. Chorlton, [Viscous and Compressible Fluid Dynamics](#), Ellis Horwood, Chichester (1989).
114. Owczarek, J. A., [Introduction to Fluid Mechanics](#), International Textbook Co., Scranton, Pennsylvania (1968).
115. Panton, R. L., [Incompressible Flow](#), 4th ed., John Wiley, New York (2013).
116. Papanastasiou, T. C., [Applied Fluid Mechanics](#), Prentice Hall, NJ (1994).
117. Papanastasiou, T. C., G. C. Georgiou, and A. N. Alexandrou, [Viscous Fluid Flow](#), CRC Press, New York (2000).
118. Paterson, A. R., [A First Course in Fluid Dynamics](#), Cambridge Univ. Press (1983).
119. Petrila, T. and D. Trif, [Basics of Fluid Mechanics and Introduction to Computational Dynamics](#), Springer (2005).

120. Pope, S. B., [Turbulent Flows](#), Cambridge Univ. Press, Cambridge, UK (2000).
121. Potter, M. C. and J. F. Foss, [Fluid Mechanics](#), 2nd ed., Great Lakes Press (1983).
122. Potter, M. C., D. C. Wiggert, M. Hondzo, and T. I-P. Shih, [Mechanics of Fluids](#), 3rd ed., Brooks/Cole, Pacific Grove, CA (2001).
123. Pozrikidis, C., [Introduction to Theoretical and Computational Fluid Dynamics](#), Oxford Univ. Press, Oxford (1997).
124. Pnueli, D. and C. Gutfinger, [Fluid Mechanics](#), Cambridge Univ. Press (1997).
125. Prandtl, L., [Essentials of Fluid Dynamics](#), Hafner Publications, New York (1952).
126. Prasuhn, A. L., [Fundamentals of Fluid Mechanics](#), Prentice Hall, NJ (1980).
127. Pritchard, P. J. and J. W. Mitchell, [Fox and McDonald's Introduction to Fluid Mechanics](#), 9th ed., John Wiley, New York (2014).
128. Robertson, J. M., [Hydrodynamics in Theory and Application](#), Prentice Hall, NJ (1965).
129. Rogers, D. F., [Laminar Flow Analysis](#), Cambridge Univ. Press (1992).
130. Rosenhead, L. (ed.), [Laminar Boundary Layers](#), Oxford Univ. Press (1963).
131. Rouse, H. (ed.), [Advanced Mechanics of Fluids](#), John Wiley, New York (1959).
132. Rouse, H., [Elementary Mechanics of Fluids](#), Dover Publications, New York (1979).
133. Roy, D. N., [Applied Fluid Mechanics](#), Ellis Horwood (1988).
134. Sabersky, R. H., A. J. Acosta, E. G. Hauptmann, and E. M. Gates, [Fluid Flow: A First Course in Fluid Mechanics](#), 4th ed., Prentice Hall, NJ (1998).
135. Saffman, P.G., [Vortex Dynamics](#), Cambridge Univ. Press, New York (1992).
136. Samimy, M., K. S. Breuer, L. G. Leal, and P. H. Steen, [A Gallery of Fluid Motion](#), Cambridge Univ. Press, New York (2003).
137. Schaschke, C., [Fluid Mechanics: Worked Examples for Engineers](#), Institution of Chemical Engineers (1998).
138. Schetz, J. A., [Foundations of Boundary Layer Theory](#), Prentice Hall, NJ (1984).
139. Schetz, J. A. and A. E. Fuhs, [Fundamentals of Fluid Mechanics](#), 3rd ed., Wiley-Interscience (1999).
140. Schlichting, H., [Boundary Layer Theory](#), 7th ed., McGraw-Hill, New York (1979).
141. Serrin, J., [Mathematical Principles of Classical Fluid Mechanics](#), in Encyclopedia of Physics, edited by S. Flügge, Springer-Verlag, Berlin-Heidelberg (1959).
142. Seshadri, C. V. and S. V. Patankar, [Elements of Fluid Mechanics](#), Prentice Hall of India, New Delhi (1971).

143. Shames, I. H., [Mechanics of Fluids](#), 4th ed., McGraw-Hill, New York (2002).
144. Shaughnessy, E. J., I. M. Katz, and J. P. Schaffer, [Introduction to Fluid Mechanics](#), Oxford Univ. Press (2004).
145. Sherman, I. H., [Viscous Flow](#), McGraw-Hill, New York (1990).
146. Shinbrot, M., [Lectures on Fluid Mechanics](#), Gordon & Breach (1973).
147. Shivamoggi, B. K., [Theoretical Fluid Dynamics](#), John Wiley, New York (1998).
148. Slattery, J. C., [Advanced Transport Phenomena](#), Cambridge Univ. Press (1999).
149. Smits, A. J., [A Physical Introduction to Fluid Mechanics](#), John Wiley, New York (1999).
150. Spurk, J. H. and N. Aksel, [Fluid Mechanics](#), 3rd ed., Springer-Verlag, New York (2019).
151. Stanisic, M. M., [The Mathematical Theory of Turbulence](#), Springer-Verlag, New York (1985).
152. Streeter, V. L., E. B. Wylie, and K. W. Bedford, [Fluid Mechanics](#), 9th ed., McGraw-Hill, New York (2017).
153. Streeter, V. L. (ed.), [Handbook of Fluid Dynamics](#), McGraw-Hill, New York (1961).
154. Sullivan, J. A., [Fundamentals of Fluid Mechanics](#), Reston Pub. Co. (1978).
155. Swinney, H. L. and J. P. Gollub, [Hydrodynamic Instabilities and Transition to Turbulence](#), Springer, New York (1981).
156. Telionis, D. P., [Unsteady Viscous Flows](#), Springer-Verlag, New York (1981).
157. Tennekes, H. and J. L. Lumley, [A First Course in Turbulence](#), MIT Press, Cambridge, MA (1972).
158. Tritton, D. J., [Physical Fluid Dynamics](#), 2nd ed., Oxford Univ. Press (1988).
159. Tropea, C., A. L. Yarin, and J. F., Foss (eds.), [Springer Handbook of Experimental Fluid Mechanics](#), Springer-Verlag (2007).
160. Truesdell, C. and K. R. Rajagopal, [An Introduction to the Mechanics of Fluids](#), Birkhäuser, Boston (1999).
161. Valentine, H. R., [Applied Hydrodynamics](#), 5th ed., Dover Publications (1996).
162. Van Dyke, M., [Perturbation Methods in Fluid Mechanics](#), Parabolic Press, Stanford, CA (1970).
163. Van Dyke, M., [An Album of Fluid Motion](#), Parabolic Press, Stanford, CA (1982).
164. Vanyo, J. P., [Rotating Fluids in Engineering and Science](#), Butterworth-Heinemann (1993).

165. Vennard, J. K. and R. L. Street, [Elementary Fluid Mechanics](#), 7th ed., John Wiley, New York (1995).
166. von Mises, R. and K. O. Friedrchs, [Fluid Dynamics](#), Springer-Verlag, New York (1971).
167. Walshaw, A. C. and D. A. Jobson, [Mechanics of Fluids](#), Longman (1979).
168. Warsi, Z. U. A., [Fluid Dynamics - Theoretical and Computational Approaches](#), 3rd ed., Taylor & Francis (2006).
169. Whitaker, S., [Introduction to Fluid Mechanics](#), Krieger Publishing Co. (1992).
170. White, F. M. and H. Xue, [Fluid Mechanics](#), 9th ed., McGraw-Hill, New York (2022).
171. White, F. M., [Viscous Fluid Flow](#), 3rd ed., McGraw-Hill, New York (2006).
172. Wieghardt, K. and W. Tillmann, [Boundary Layer Theory](#), McGraw-Hill, New York (1968).
173. Wilcox, D. C., [Basic Fluid Mechanics](#), 2nd ed., DCW Industries, La Canada, CA (2000).
174. Yih, C.-S., [Fluid Mechanics: A Concise Introduction to Theory](#), West River Press, Ann Arbor, MI (1977).
175. Young, D. F., B. R. Munson, T. H. Okiishi, and W. W. Huebsch, [A Brief Introduction to Fluid Mechanics](#), Wiley, New York (2007).
176. Yuan, S. W., [Foundations of Fluid Mechanics](#), Prentice Hall, NJ (1970).
177. Zeytounian, R. Kh., [Theory and Applications of Viscous Fluid Flows](#), Springer-Verlag, New York (2004).