

## BIBLIOGRAPHY AND REFERENCES

A comprehensive up-to-date bibliography may be found in Monin and Yaglom, 1971.

**Abramovich, G. N., 1963.**

*The theory of turbulent jets.* The M.I.T. Press, Cambridge, Mass.

**Bakewell, H. P., and Lumley, J. L., 1967.**

Viscous sublayer and adjacent wall region in turbulent pipe flow. *Physics of Fluids* **10**, 1880.

**Batchelor, G. K., 1953.**

*The theory of homogeneous turbulence.* Cambridge University Press, London.

———, 1959.

Small-scale variation of convected quantities like temperature in a turbulent fluid, part 1. *Journal of Fluid Mechanics* **5**, 113.

———, 1967.

*An introduction to fluid mechanics.* Cambridge University Press, London.

**Batchelor, G. K., and Moffat, H. K. (eds.), 1970.**

Proceedings of the Boeing Symposium on Turbulence. *Journal of Fluid Mechanics* **41**, parts 1 and 2.

**Batchelor, G. K., and Townsend, A. A., 1956.**

Turbulent diffusion. *Surveys in mechanics*, pp. 353–399. Cambridge University Press, London.

**Blackadar, A. K., and Tennekes, H., 1968.**

Asymptotic similarity in neutral barotropic planetary boundary layers. *Journal of the Atmospheric Sciences* **25**, 1015.

**Bowden, K. F., Frenkiel, F. N., and Tani, I. (eds.), 1967.**

Boundary layers and turbulence. *Physics of Fluids* **10**, S1–S321 (supplement issue, September 1967).

**Bradshaw, P., 1971.**

*An introduction to turbulence and its measurement.* Pergamon Press, London.

**Clauser, F. H., 1956.**

The turbulent boundary layer. *Advances in Applied Mechanics* **IV**, 1–51.

**Cole, J. D., 1968.**

*Perturbation methods in applied mathematics.* Blaisdell Publishing Co., Waltham, Mass.

**Coles, D., 1956.**

The law of the wake in the turbulent boundary layer. *Journal of Fluid Mechanics* **1**, 191.

**Comte-Bellot, G., and Corrsin, S., 1965.**

The use of a contraction to improve the isotropy of grid-generated turbulence. *Journal of Fluid Mechanics* **25**, 657.

**Corrsin, S., 1951.**

On the spectrum of isotropic temperature fluctuations in isotropic turbulence. *Journal of Applied Physics* **22**, 469.

———, 1953.

Remarks on turbulent heat transfer. *Proceedings of the Iowa Thermodynamics Symposium*, pp. 5–30. State University of Iowa, Iowa City.

———, 1959.

Outline of some topics in homogeneous turbulent flow. *Journal of Geophysical Research* **64**, 2134.

———, 1963a.

Estimates of the relations between Eulerian and Lagrangian scales in large Reynolds number turbulence. *Journal of the Atmospheric Sciences* **20**, 115.

———, 1963b.

Turbulence: Experimental methods. *Handbuch der Physik* **VII/2**, pp. 524–590. Springer-Verlag, Berlin.

———, 1964.

Further generalizations of Onsager's cascade model for turbulent spectra. *Physics of Fluids* **7**, 1156.

**Corrsin, S., and Kistler, A. L., 1954.**

The free-stream boundaries of turbulent flows, National Advisory Committee for Aeronautics, Technical Note NACA TN 3133.

**Favre, A. (ed.), 1962.**

*Mécanique de la turbulence*. Colloques Internationaux du Centre National de la Recherche Scientifique. Éditions CNRS, Paris. English edition: *The mechanics of turbulence*, Gordon and Breach, New York, 1964.

**Frenkiel, F. N. (ed.), 1962.**

*Fundamental problems in turbulence and their relation to geophysics*. American Geophysical Union, New York.

**Friedlander, S. K., and Topper, L. (eds.), 1962.**

*Turbulence: Classical papers on statistical theory*. Interscience, New York.

**Gibson, C. H., and Schwartz, W. H., 1963.**

The universal equilibrium spectra of turbulent velocity and scalar fields. *Journal of Fluid Mechanics* **16**, 365.

**Hinze, J. O., 1959.**

*Turbulence*. McGraw-Hill, New York.

**Inoue, E., 1951.**

On the Lagrangian correlation coefficient for turbulent diffusion and its application to atmospheric diffusion phenomena. Report, Geophysics Institute, University of Tokyo.

**Jeans, J., 1940.**

*An introduction to the kinetic theory of gases*. Cambridge University Press, London.

**Kadomtsev, B. B., 1965.**

*Plasma turbulence*. Academic Press, New York.

**Kármán, Th. von, 1930.**

Mechanische Ähnlichkeit und Turbulenz. *Nachrichten der Akademie der Wissenschaften Göttingen, Math.-Phys. Klasse*, **58**.

**Lin, C. C., 1961.**

*Statistical theories of turbulence*. Princeton University Press, Princeton, N.J.

**Ludwig, H., and Tillman, W., 1949.**

Untersuchungen über die Wandschubspannung in turbulenten Reibungsschichten. *Ingenieur Archiv* **17**, 288. English edition: National Advisory Committee for Aeronautics, Report NACA TM 1285, Investigations of the wall shearing stress in turbulent boundary layers.

**Lumley, J. L., 1965.**

On the interpretation of time spectra measured in high intensity shear flows. *Physics of Fluids* **8**, 1056.

\_\_\_\_\_, 1970.

*Stochastic tools in turbulence*. Academic Press, New York.

\_\_\_\_\_, 1972a.

Application of central limit theorems to turbulence problems. In *Statistical models and turbulence*. Lecture notes in mathematics. Springer-Verlag, New York.

\_\_\_\_\_, 1972b.

On the solution of equations describing small scale deformation. In *Symposia Matematica: Convegno sulla Teoria della Turbolenza al Istituto Nazionale di Alta Matematica*. Academic Press, New York.

**Lumley, J. L., and Panofsky, H. A., 1964.**

*The structure of atmospheric turbulence.* Interscience, New York.

**Millikan, C. B., 1939.**

A critical discussion of turbulent flow in channels and circular tubes. *Proceedings of the Fifth International Congress on Applied Mechanics* (Cambridge, Mass., 1938), pp. 386–392. Wiley, New York.

**Monin, A. S., and Yaglom, A. M., 1971.**

*Statistical fluid mechanics.* The M.I.T. Press, Cambridge, Mass.

**Morkovin, M. V., 1956.**

*Fluctuations and hot-wire anemometry in compressible flows.* AGARDograph 24, NATO, Paris.

**Oboukhov, A. M., 1949.**

Structure of the temperature field in turbulent flows. *Izvestiya Akademii Nauk SSSR, Geogr. and Geophys. Ser.* **13**, 58.

**Orszag, S. A., 1971.**

*The statistical theory of turbulence.* Cambridge University Press, London.

**Pao, Y. H., 1965.**

Structure of turbulent velocity and scalar fields at large wave numbers. *Physics of Fluids* **8**, 1063.

**Pao, Y. H., and Goldberg, A. (eds.), 1969.**

*Clear-air turbulence and its detection.* Plenum Press, New York.

**Pasquill, F., 1962.**

*Atmospheric diffusion.* Van Nostrand, New York.

**Phillips, O. M., 1966.**

*The dynamics of the upper ocean.* Cambridge University Press, London.

**Priestley, C. H. B., 1959.**

*Turbulent transfer in the lower atmosphere.* University of Chicago Press, Chicago.

**Reynolds, O., 1895.**

On the dynamical theory of incompressible viscous fluids and the determination of the criterion. *Philosophical Transactions of the Royal Society of London, Series A*, **186**, 123.

**Rouse, H., Yih, C. S., and Humphreys, H. W., 1952.**

Gravitational convection from a boundary source. *Tellus* **4**, 201.

**Saffman, P. G., 1963.**

On the fine-scale structure of vector fields convected by a turbulent fluid. *Journal of Fluid Mechanics* **16**, 545.

**Schlichting, H.**, 1960.

*Boundary-layer theory*. McGraw-Hill, New York (4th ed.).

**Schubauer, G. B., and Tchen, C. M.**, 1961.

*Turbulent flow*. Princeton University Press, Princeton, N.J.

**Spitzer, L., Jr.**, 1968.

*Diffuse matter in space*. Interscience, New York.

**Stewart, R. W.**, 1969.

*Turbulence*. (Motion picture film). Educational Services, Inc., Cambridge, Mass.

**Stratford, B. S.**, 1959.

An experimental flow with zero skin friction throughout its region of pressure rise. *Journal of Fluid Mechanics* **5**, 17.

**Tatarski, V. I.**, 1961.

*Wave propagation in a turbulent medium*. McGraw-Hill, New York.

**Taylor, G. I.**, 1915.

Eddy motion in the atmosphere. *Philosophical Transactions of the Royal Society of London, Series A*, **215**, 1.

———, 1921.

Diffusion by continuous movements. *Proceedings of the London Mathematical Society, Series 2*, **20**, 196.

———, 1932.

The transport of vorticity and heat through fluids in turbulent motion. *Proceedings of the Royal Society of London, Series A*, **135**, 685.

———, 1935.

Statistical theory of turbulence. *Proceedings of the Royal Society of London, Series A*, **151**, 421.

———, 1938.

The spectrum of turbulence. *Proceedings of the Royal Society of London, Series A*, **164**, 476.

**Tennekes, H.**, 1965.

Similarity laws for turbulent boundary layers with suction or injection. *Journal of Fluid Mechanics* **21**, 689.

———, 1968.

Outline of a second-order theory for turbulent pipe flow. *AIAA Journal* **6**, 1735.

**Townsend, A. A.**, 1956.

*The structure of turbulent shear flow*. Cambridge University Press, London.

**Uberoi, M. S., and Kovasznay, L. S. G., 1953.**

On mapping and measurement of random fields. *Quarterly of Applied Mathematics* **10**, 375.

**Yaglom, A. M., and Tatarski, V. I. (eds.), 1967.**

*Atmospheric turbulence and radio-wave propagation.* Publishing House Nauka, Moscow.

**Zel'dovich, Ya. B., 1937.**

Limiting laws for turbulent flows in free convection. *Zhurnal Eksperimental'noi Teoreticheskoi Fiziki* (Journal of Experimental and Theoretical Physics) **7**, No. 12, 1463.