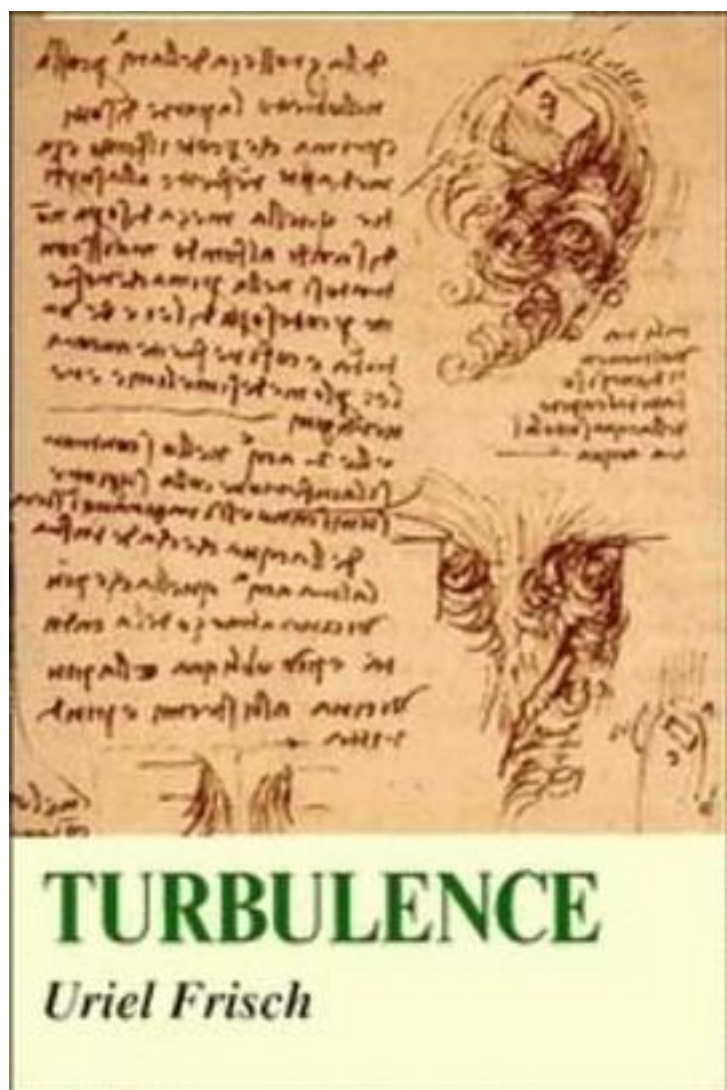# Turbulence

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A comprehensive two-volume overview of turbulence: theory, modeling, numerical simulation, and experimental results, including material so far only available in technical journals, including Hamiltonian and Lagrangian representations, probability distribution functions, equilibrium statistical mechanics, specialized models for intermittency, a rigorous development of renormalized perturbation theory, a comprehensive discussion of Markovian closures, recursive renormalization, adaptive numerical methods, and wavelet methods. Applications and examples are found in turbulence in compressible fluids, in convection, in magnetohydrodynamics, in geophysics, and in astrophysics.

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