



Large-Eddy Simulations of Turbulence

M. Lesieur, O. Métais, P. Comte

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Large-Eddy Simulations of Turbulence is an ideal introduction for people new to LES [large-eddy simulation], direct numerical simulation and Reynolds-averaged Navier-Stokes simulation, and as a reference for researchers. Of particular interest in the text are the detailed discussion, in Chapter 2, of vorticity, pressure, and the velocity gradient tensor, quantities useful for probing the results of a simulation, particularly when looking for coherent vortices and coherent structures. Chapters 4 and 5 feature an in-depth discussion of spectral subgrid-scale modeling. Although physical-space models are generally more readily applied, spectral models give insight into the requirements and limitations in subgrid-scale modeling and backscattering. A third special feature is the detailed discussion in Chapter 7, of large-eddy simulation of compressible flows previously only available in articles scattered throughout the literature. This will be of interest to those dealing with supersonic flows, combustion, astrophysics, and other related topics.

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