



Large Eddy Simulation for Incompressible Flows (Scientific Computation)

Charles Meneveau

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The only one of its kind devoted entirely to the subject, Large Eddy Simulation presents a comprehensive account and a unified view of this young but very rich discipline. LES is the only efficient technique for approaching high Reynolds numbers when simulating industrial, natural or experimental configurations. The author concentrates on incompressible fluids and chooses topics well to treat both the mathematical ideas and the applications with care. The book addresses researchers as well as graduate students and engineers. The second edition was a greatly enriched version motivated both by the increasing theoretical interest in LES and the increasing number of applications. Two entirely new chapters were devoted to the coupling of LES with multiresolution multidomain techniques and to the new hybrid approaches that relate the LES procedures to the classical statistical methods based on the Reynolds-Averaged Navier-Stokes equations. This 3rd edition adds various sections to the text like a careful error analysis, on filtered density function models and multiscale models. It also contains two new chapters on the prediction of scalars using LES which are of considerable interest for engineering and geophysical modeling. The part on geophysical flow has much to offer on a critical current issue.

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