



Turbulence in Fluids (Fluid Mechanics and Its Applications)

By Marcel Lesieur

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Now in its fully updated fourth edition, this leading text in its field is an exhaustive monograph on turbulence in fluids in its theoretical and applied aspects. The authors examine a number of advanced developments using mathematical spectral methods, direct-numerical simulations, and large-eddy simulations. The book remains a hugely important contribution to the literature on a topic of great importance for engineering and environmental applications, and presents a very detailed presentation of the field.

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Editorial Review

Review

From the reviews of the fourth edition:

"Turbulence in Fluids contains a wealth of information, and its author is a top-tier scientist. ... The book is logically ordered and contains a comprehensive list of 738 references. ... Lesieur's monograph is recommended for those who already know quite a bit about turbulence, for the theoretically inclined, and in particular for those interested in homogeneous turbulence and geophysical flows and their numerical simulation." (Mohamed Gad-El-Hak, Siam Review, Vol. 51 (1), 2009)

From the Back Cover

This is the 4th edition of a book originally published by Kluwer Academic Publishers. It is an exhaustive monograph on turbulence in fluids in its theoretical and applied aspects, with many advanced developments using mathematical spectral methods (two-point closures like the EDQNM theory), direct-numerical simulations, and large-eddy simulations.

The book is still of great actuality on a topic of the utmost importance for engineering and environmental applications, and presents a very detailed presentation of the field. The fourth edition incorporates new results coming from research work done since 1997. Many of these results come from direct and large-eddy simulations methods, which have provided significant advances in problems such as turbulent mixing or thermal exchanges (with and without gravity effects).

Topics dealt with include: an introduction to turbulence in fluid mechanics; basic fluid dynamics; transition to turbulence; shear-flow turbulence; Fourier analysis for homogeneous turbulence; isotropic turbulence; phenomenology and simulations; analytical theories and stochastic models; two-dimensional turbulence; geostrophic turbulence; absolute-equilibrium ensembles; the statistical predictability theory; large-eddy simulations; and a section that explores developments towards real-world turbulence.

Users Review

From reader reviews:

Lacie Young:

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Charlotte Lee:

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