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Turbulence: The Legacy Of A. N. Kolmogorov



Synopsis

Written five centuries after the first studies of Leonardo da Vinci and half a century after A.N. Kolmogorov's first attempt to predict the properties of flow, this textbook presents a modern account of turbulence, one of the greatest challenges in physics. "Fully developed turbulence" is ubiquitous in both cosmic and natural environments, in engineering applications and in everyday life. Elementary presentations of dynamical systems ideas, probabilistic methods (including the theory of large deviations) and fractal geometry make this a self-contained textbook. This is the first book on turbulence to use modern ideas from chaos and symmetry breaking. The book will appeal to first-year graduate students in mathematics, physics, astrophysics, geosciences and engineering, as well as professional scientists and engineers.

Book Information

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Customer Reviews

"This is a work of great scholarship....This book belongs in the library of any college or university where physics is taught. It can productively be used as a reference in advanced undergraduate courses or as a text for a one-semester course on turbulence itself." Russell J. Donnelly, Physics Today

Presenting a modern account of turbulence for graduate students as well as professionals, this textbook is written five centuries after the first studies of Leonardo da Vinci and half a century after A.N. Kolmogorov's first attempt to predict the properties of flow.

Excellent book as an introduction to turbulence

Best modern book on turbulence.

I actually bought this book as suggested by a friend, and I found it to be interesting and well written. In my opinion, the author presents a nice overview of the aspects of turbulence theory which are closer to his own experience: in this sense the book is a sort of 'autobiographic picture' of turbulence, not a textbook. However I really appreciated it, probably because I share many of Frisch's opinion, and was really enlightened by some of the historical (and philosophical) considerations. A must for the practitioner.

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