



Turbulence from First Principles (Physics Research and Technology)

Michail Zak

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This book presents a non-traditional approach to the theory of turbulence. Its objective is to prove that Newtonian mechanics is fully equipped for the description of turbulent motions without the help of experimentally obtained closures. Turbulence is one of the most fundamental problems in theoretical physics that is still unsolved. The term "unsolved" here means that turbulence cannot be properly formulated (ie: reduced to standard mathematical procedure such as solving differential equations). In other words, it is not just a computational problem: prior to computations, a consistent mathematical model must be found. Although applicability of the Navier-Stokes equations as a model for fluid mechanics is not in question, the instability of their solutions for flows with supercritical Reynolds numbers raises a more general question: is Newtonian mechanics complete?

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