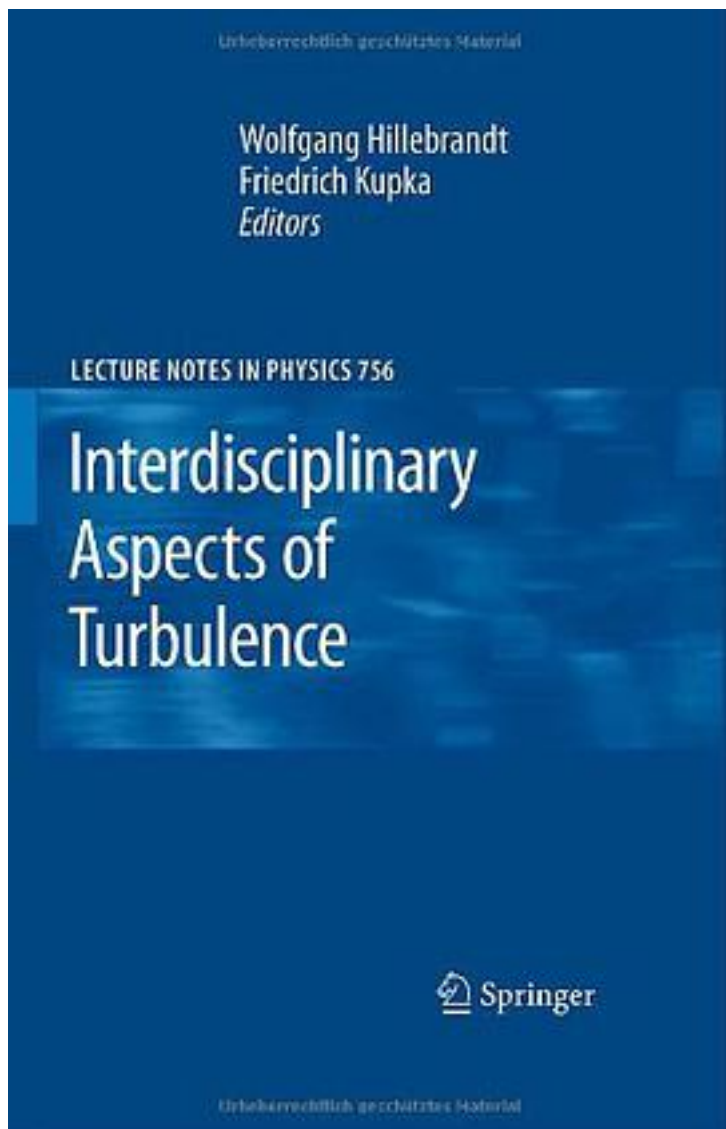


Interdisciplinary Aspects of Turbulence



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著者:Friedrich, Kupka 编

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The interdisciplinary aspects of turbulence are brought together in this volume containing chapters written by experts from very diverse fields, including geophysics, astrophysics, and engineering. It covers several subjects on which considerable progress was made during the last decades, from questions concerning the very nature of turbulence to some practical applications. These subjects include: a basic introduction to turbulence, statistical mechanics and nonlinear dynamics; turbulent convection in stars, atmospheric turbulence in the context of numerical weather predictions, magnetohydrodynamic turbulence, and turbulent combustion with application to supernova explosions; and finally the numerical treatment of the multi-scale character of turbulence.

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