Lecture Notes in Physics

Maurice Meneguzzi Annick Fouquet Pierre-Louis Sulem (Eds.)

Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence

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# <u>Smallscale Structures In Threedimensional</u> <u>Hydrodynamic And Magnetohydrodynamic Turbulence</u>

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### Smallscale Structures In Threedimensional Hydrodynamic And Magnetohydrodynamic Turbulence:

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Advances in Turbulence VII Uriel

Frisch,2012-12-06 Advances in Turbulence VII contains an overview of the state of turbulence research with some bias towards work done in Europe It represents an almost complete collection of the invited and contributed papers delivered at the Seventh European Turbulence Conference sponsored by EUROMECH and ERCOFTAC and organized by the Observatoire de la C te d Azur New high Reynolds number experiments combined with new techniques of imaging non intrusive probing processing and simulation provide high quality data which put significant constraints on possible theories For the first time it has been shown for a class of passive scalar problems why dimensional analysis sometimes gives the wrong answers and how anomalous intermittency corrections can be calculated from first principles The volume is thus geared towards specialists in the area of flow turbulence who could not attend the conference as well as anybody interested in this rapidly moving field

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