

Maurice Meneguzzi · Annick Pouquet  
Pierre-Louis Sulem (Eds.)

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

Proceedings,  
Nice, France 1995



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# Smallscale Structures In Threedimensional Hydrodynamic And Magnetohydrodynamic Turbulence

**Michael Ungs**



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

**Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence** Maurice Meneguzzi, Annick Pouquet, 1995-11-17 Small scale structures in turbulent flows appear as a subtle mixture of order and chaos that could play an important role in the energetics The aim here is a better understanding of the similarities and differences between vortex and current dynamics and of the influence of these structures on the statistical and transport properties of hydrodynamic and magnetohydrodynamic turbulence with special concern for fusion plasmas and solar or magnetospheric environments Special emphasis is given to the intermittency at inertial scales and to the coherent structures at small scales Magnetic reconnection and the dynamo effect are also discussed together with the effect of stratification and inhomogeneity The impact of hydrodynamic concepts on astro and geophysical observations are reviewed **Small-scale**

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**Applications** Peter Charles Greiner, Canadian Mathematical Society. Seminar, 1997-01-01 Just list for purposes of NBB

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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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