Lecture Notes in Physics

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

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

> Proceedings, Nice, France 1995



Maurice Meneguzzi, Annick Pouquet, Pierre-Louis Sulem

Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence Maurice Meneguzzi, Annick Pouguet, 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** Structures in Three-dimensional Hydrodynamic and Magnetohydrodynamic Turbulence M. Meneguzzi, A. Pouquet, P. L. Sulem.1995 Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence Maurice Meneguzzi, Annick Pouquet, Pierre-Louis Sulem, 2013-11-13 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 Structure in Three-dimensional Hydrodynamic and Magnetohydrodynamic Turbulence Maurice Meneguzzi, Annick Pouquet, P. L. Sulem, 1995 **Partial Differential Equations and Their** Applications Peter Charles Greiner, Canadian Mathematical Society. Seminar, 1997-01-01 Just list for purposes of NBB

Tubes, Sheets and Singularities in Fluid Dynamics K. Bajer, H.K. Moffatt, 2006-04-11 Modern experiments and numerical simulations show that the long known coherent structures in turbulence take the form of elongated vortex tubes and vortex sheets. The evolution of vortex tubes may result in spiral structures which can be associated with the spectral power laws of turbulence. The mutual stretching of skewed vortex tubes when they are close to each other causes rapid growth of vorticity. Whether this process may or may not lead to a finite time singularity is one of the famous open problems of fluid dynamics. This book contains the proceedings of the NATO ARW and IUTAM Symposium held in Zakopane Poland 2.7 September 2001. The papers presented carefully reviewed by the International Scientific Committee cover various aspects of the dynamics of vortex tubes and sheets and of their analogues in magnetohydrodynamics and in quantum turbulence. The book should be a useful reference for all researchers and students of modern fluid dynamics.

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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during the 2021-2022 school.