Lecture Notes in Physics

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

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

> Proceedings, Nice, France 1995



**Ying Liu** 

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Meneguzzi, A. Pouguet, P. L. Sulem, 1995 Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence Maurice Meneguzzi, Annick Pouguet, Pierre-Louis Sulem, 2014-03-12 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 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 Partial Differential Equations and Their Applications Peter Charles Greiner, Canadian Mathematical Society. Seminar, 1997-01-01 Just list for purposes of NBB

Meneguzzi,Annick Pouquet,P. L. Sulem,1995 **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 
Computational Methods for the Atmosphere and the Oceans Roger Temam, Joe Tribbia, 2009-06-16 This book provides a survey of the frontiers of research in the numerical modeling and mathematical analysis used in the study of the atmosphere and oceans The details of the current practices in global atmospheric and ocean models the assimilation of observational data into such models and the numerical techniques used in theoretical analysis of the atmosphere and ocean are among the topics covered Truly interdisciplinary scientific interactions between specialties of atmospheric and ocean sciences and applied and computational mathematics Uses the approach of computational mathematicians applied and numerical analysts and the tools appropriate for unsolved problems in the atmospheric and oceanic sciences Contributions uniquely address central problems and provide a survey of the frontier of research

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 Heterogeneity in the Crust and Upper Mantle John A. Goff, Klaus Holliger, 2012-12-06 Most of our knowledge about the physical structure and the chemical composition of the Earth's deep interior is inferred from seismic data. The interpretation of seismic waves generally follows the assumption that the Earth's physical structure is grossly layered and that fluctuations of the physical parameters within individual layers are smooth in structure and small in magnitude While this view greatly facilitates the analytic and interpretative procedure it is clearly at odds with evidence from outcrops and boreholes which indicates that compositional structural and petrophysical heterogeneity in the Earth prevails over a wide range of scales This book is the first to unify three different views of crustal and upper mantle heterogeneity It brings together the geological view which is derived from the analysis of crustal exposures and deep boreholes the stochastic view which attempts to find order and structure in these seemingly chaotic data and the seismological view which considers the end product of the complex interaction of seismic energy with the heterogeneous structure at depth John Goff and Klaus Holliger have compiled chapters that explore and quantify the relationship between geological and petrophysical heterogeneity and its seismic response and use seismic data to probe the fabric of the Earth s interior Geologists geostaticians and geophysicists alike will benefit from the integrative perspective presented in Heterogeneity in the Crust and Upper Mantle Nature Scaling and Seismic Properties making this text an unparalleled

reference for professionals and students in Earth science fields **The Theory of Quantum Torus Knots** Michael Ungs,2009-09-25 A detailed mathematical derivation of space curves is presented that links the diverse fields of superfluids quantum mechanics and hydrodynamics by a common foundation The basic mathematical building block is called the theory of quantum torus knots QTK

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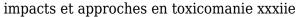
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