

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

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

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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 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 Côte 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.

*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.

**Spectral/hp Element Methods for Computational Fluid Dynamics** George Karniadakis, Spencer Sherwin, 2013-01-10. Completely revised and expanded new edition covering the recent and significant progress in multi-domain spectral methods at both the fundamental and application level. Written by leading experts, it is a must-have for students, academics and practitioners in computational fluid mechanics and related fields.

*The Theory of Quantum Torus Knots* Michael Unger, 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).

**An Informal Introduction to Turbulence** A. Tsinober, 2001-11-30. This book is an informal introduction to the turbulence of fluids. The emphasis is placed on turbulence as a physical phenomenon. It addresses the unresolved issues, misconceptions, controversies and major problems of the turbulence of fluids rather than the conventional formalistic elements and models. Little use is made of complicated formalisms; instead, the emphasis is placed on an essentially informal qualitative form. The scope of the book is focused on the purely basic aspects of the turbulent flows of incompressible fluids. This book will certainly be of interest and use to graduate students as well as scientists active in fields where the turbulence of fluids is of importance. The book is intentionally written to appeal to a broad readership with the aim of making the turbulence of fluids interesting and comprehensible to the interested engineer.

**Millimeter-Wave Astronomy: Molecular Chemistry & Physics in Space**

W.F. Wall, Alberto Carramiñana, Luis Carrasco, P.F. Goldsmith, 2012-12-06 Proceedings of the 1996 INAOE Summer School of Millimeter Wave Astronomy held at INAOE Tonantzintla Puebla Mexico 15-31 July 1996 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, geostatisticians, 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. **Current Trends in International Fusion Research** Charles D. Orth, Emilio Panarella, 2007 **Advances in Nonlinear Dynamical Systems** Antonio Ferriz-Mas, Manuel Nunez, 2019-04-24 Nonlinear dynamo theory is central to understanding the magnetic structures of planets, stars, and galaxies. In chapters contributed by some of the leading scientists in the field, this text explores some of the recent advances in the field. Both kinetic and dynamic approaches to the subject are considered, including fast dynamos, topological methods in dynamo theory, physics of the solar cycle, and the fundamentals of mean-field dynamo. *Advances in Nonlinear Dynamical Systems* is ideal for graduate students and researchers in theoretical astrophysics and applied mathematics, particularly those interested in cosmic magnetism and related topics such as turbulence, convection, and more general nonlinear physics. *Discontinuous Galerkin Methods* Bernardo Cockburn, George E. Karniadakis, Chi-Wang Shu, 2012-12-06 A class of finite element methods, the Discontinuous Galerkin Methods (DGM), has been under rapid development recently and has found its use very quickly in such diverse applications as aeroacoustics, semiconductor device simulation, turbomachinery, turbulent flows, materials processing, MHD, and plasma simulations, and image processing. While there has been a lot of interest from mathematicians, physicists, and engineers in DGM, only scattered information is available, and there has been no prior effort in organizing and publishing the existing volume of knowledge on this subject. In May 24-26, 1999, we organized in Newport, Rhode Island, USA, the first international symposium on DGM with equal emphasis on the theory, numerical implementation, and applications. Eighteen

invited speakers leaders in the field and thirty two contributors presented various aspects and addressed open issues on DGM In this volume we include forty nine papers presented in the Symposium as well as a survey paper written by the organizers All papers were peer reviewed A summary of these papers is included in the survey paper which also provides a historical perspective of the evolution of DGM and its relation to other numerical methods We hope this volume will become a major reference in this topic It is intended for students and researchers who work in theory and application of numerical solution of convection dominated partial differential equations The papers were written with the assumption that the reader has some knowledge of classical finite elements and finite volume methods

**Annales Geophysicae**, 2008 *Turbulence and Magnetic Fields in Astrophysics* Edith Falgarone, Thierry Passot, 2008-01-11 This book contains review articles of most of the topics addressed at the conference on Simulations of Magnetohydrodynamic turbulence in astrophysics recent achievements and perspectives which took place from July 2 to 6 2001 at the Institut Henri Poincaré in Paris We made the choice to publish these lectures in a tutorial form so that they can be read by a broad audience As a result this book does not give an exhaustive view of all the subjects addressed during the conference The main objective of this workshop which gathered about 90 scientists from different fields was to present and confront recent results on the topic of turbulence in magnetized astrophysical environments A second objective was to discuss the latest generation of numerical codes such as those using adaptive mesh refinement AMR techniques During a plenary discussion at the end of the workshop discussions were held on several topics often at the heart of vivid controversies Topics included the timescale for the dissipation of magnetohydrodynamical MHD turbulence the role of boundary conditions the characteristics of imbalanced turbulence the validity of the polytropic approach to Alfvén waves support within interstellar clouds the source of turbulence inside clouds devoid of stellar activity the timescale for star formation the Alfvén Mach number of interstellar gas motions the formation process for helical fields in the interstellar medium The impact of small upon large scales was also discussed

*The Seventh Asian Congress of Fluid Mechanics*, 1997 Magnetic Helicity in Space and Laboratory Plasmas Michael R. Brown, Richard C. Canfield, Alexei A. Pevtsov, 1999-01-26 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 111 Using the concept of magnetic helicity physicists and mathematicians describe the topology of magnetic fields twisting writhing and linkage Mathematically helicity is related to linking integrals which Gauss introduced in the 19th century to describe the paths of asteroids in the sky In the late 1970s the concept proved to be critical to understand laboratory plasma experiments on magnetic reconnection dynamos and magnetic field relaxation In the late 1980s it proved equally important in understanding turbulence in the solar wind and the interplanetary magnetic field During the last five years interest in magnetic helicity has grown dramatically in solar physics and it will continue to grow as observations of vector magnetic fields become increasingly sophisticated

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