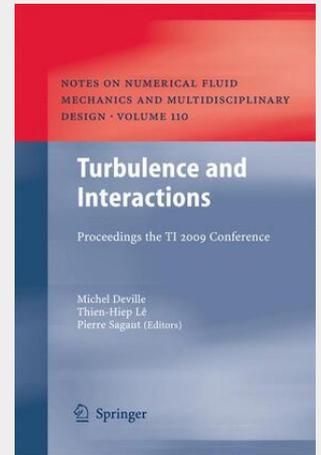


Turbulence and Interactions

Proceedings the TI 2009 Conference

The "Turbulence and Interactions 2009" (TI2009) conference was held in Saint-Luce on the island of La Martinique, France, on May 31-June 5, 2009. The scientific sponsors of the conference were • DGA • Ecole Polytechnique Fédérale de Lausanne (EPFL), • ERCOFTAC: European Research Community on Flow, Turbulence and Combustion, • Institut Jean Le Rond d'Alembert, Paris, • ONERA. This second TI conference was very successful as it attracted 65 researchers from 17 countries. The magnificent venue and the beautiful weather helped the participants to discuss freely and casually, share ideas and projects, and spend very good times all together. The organisers were fortunate in obtaining the presence of the following - vited speakers: L. Fuchs (KTH, Stockholm and Lund University), J. Jimenez (Univ. Politecnica Madrid), C.-H. Moeng (NCAR), A. Scotti (University of North Carolina), L. Shen (Johns Hopkins University) and A.J. Smits (Princeton University). The topics covered by the 62 contributed papers ranged from experimental results through theory to computations. They represent a snapshot of the state-of-the-art in turbulence research. The papers of the conference went through the usual reviewing process and the result is given in this book of Proceedings. In the present volume, the reader will find the keynote lectures followed by the contributed talks given in alphabetical order of the first author.

This volume contains six keynote lectures and 44 contributed papers of the TI 2009 conference that was held in Saint-Luce, La Martinique, May 31-June 5, 2009. These lectures address the latest developments in direct numerical simulations, large eddy simulations, compressible turbulence, coherent structures, droplets, two-phase flows, etc. The present monograph is a snapshot of the state-of-the-art in the field of turbulence with a broad view on theory, experiments and numerical simulations.



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