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Proceedings of the Symposium held on June 26, 1988 at Williamsburg, Virginia, in honor of Professor Maurice Holt on the occasion of his seventieth birthday. There were more than two dozen participants from eleven countries. They were either his past students or his colleagues whose

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Mechanics careers crossed his at some point. The twenty-one papers in this volume are the written version of the presentations at this Symposium; they are mostly in the area of computational fluid dynamics (CFD), a field in which Professor Holt is a pioneer. These papers cover almost all aspects of

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CFD including numerical analysis, symbolic analysis, and grid generation. They cover diverse topics such as complex plume flows, shock waves and shock focussing, coronary circulation, free surface flows, direct containment heat ing in nuclear reactors, and uranium enrichment.

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There is also an article on the progress and future directions in CFD by one of the true experts in this area. In addition to CFD papers, there is an experimental paper on the flow of spherical glass beads in airflow in a 90° vertical-to-horizontal bend, as well as a historical paper on seventy years

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Mechanics of fluid dynamic research at Aerodynamisches Institut at Aachen. It is worth pointing out that there is also an article on the simple fluid concept by a world-renowned authority on continuum mechanics.

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Contributions presented at the Enzo Levi and XX Annual Meeting of the Fluid Dynamic Division of the Mexican Physical Society in 2014. The individual papers explore recent advances in experimental and theoretical fluid dynamics and are suitable for use in both teaching and

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Mechanics research. The fluid dynamics applications covered include multiphase flows, convection, diffusion, heat transfer, rheology, granular materials, viscous flows, porous media flows, geophysics and astrophysics. The contributions, some of which are introductory and avoid the

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Mechanics use of complicated mathematics, are suitable for fourth-year undergraduate and graduate students. Accordingly, the book is of immense benefit to these students, as well as to scientists in the fields of physics, chemistry and engineering with an interest in fluid dynamics from experimental and

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mechanics
theoretical points of view.

In recent decades, the field of computational fluid dynamics has made significant advances in enabling advanced computing architectures to understand many phenomena in biological, geophysical, and

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Mechanics to global expansions, as well as from first-order approximation to high-order with spectral accuracy. Many successful efforts have been put forth in dynamic adaptation strategies, e.g., adaptive mesh refinement and multiresolution representation approaches. Furthermore, with recent

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Developments on all aspects of fluid mechanics. Research in turbulence continues to be one of the active areas; other papers focus on mixing, multiphase flows and porous media, slow (creeping) flows, potential flows, non-Newtonian fluids, fluid-structure interaction, and numerical methods.

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Advances in computational tools and techniques permit the rapid advance of basic and applied science. The development of computational fluid dynamics (CFD) has opened new areas of research and has significantly supplemented information available from experimental measurements.

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Scientific computing is directly responsible for such recent developments as the secondary instability theory of transition to turbulence, dynamical systems analyses of routes to chaos, ideas on the geometry of turbulence, direct simulations of turbulence, three-

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dimensional full-aircraft flow analyses, and so on. We believe that CFD has already achieved a status in the toolkit of fluid mechanics equal to that of the classical scientific techniques of mathematical analysis and laboratory experiment.

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Including previously unpublished, original research material, this comprehensive book analyses topics of fundamental importance in theoretical fluid mechanics. The five papers appearing in this volume are

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centred around the mathematical theory of the Navier-Stokes equations (incompressible and compressible) and certain selected non-Newtonian modifications.

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