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## Advances in Fluid Dynamics

## Proceedings of the Symposium in Honor of Maurice Holt

on His 70th Birthday

Advances in Fluid Dynamics

Proceedings of the Symposium in Honor of Maurice Holt  
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**Springer** This special volume contains the 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 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 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. 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 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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## Boundary Value Problems for Transonic Flow

**John Wiley & Sons** Transonic flow occurs around moving objects as they approach and cross the sound barrier. Serious problems can occur at this point, such as shock-induced flow separation which can cause the aircraft to spin out of control. Another important practical problem is the achievement of higher aerodynamic performance of aircraft at cruise conditions, which leads to considerable fuel savings. The success in application of numerical methods for simulation of transonic flow and aircraft design depends on developments in the underlying mathematical theory. This book presents a breakthrough in the solvability analysis of boundary value problems, which makes it possible to establish convergence of finite element approximations for shock-free flow and to provide a framework for putting the existing numerical methods on a more sound basis. Also, physical aspects concerned with patterns of formation and

propagation of weak shock waves are analysed. This contributes to the understanding of the extreme sensitivity of transonic flow to perturbation of freestream conditions. The developed theoretical knowledge base yields promising concepts of the airfoil design and active flow control by airfoil/wing shape modifications or suction/blowing through a perforated surface. **Boundary Value Problems for Transonic Flow \* Focuses on Computational Fluid Dynamics. \* Addresses practical problems, such as airfoil design and flow control. \* Presents developments made in the last two decades. In essence this is a much needed monograph for researchers and engineers in applied mathematics and numerical analysis applied to aerodynamics and for algorithm developers in Computational Fluid Dynamics in the aircraft industry. It gives design engineers the underlying mathematical theory necessary for developing new concepts for airfoil/wing design and flow control.**

## Floating, Flowing, Flying

### Pieter J. Zandbergen's Life as Innovator, Inspirator and Instigator in Numerical Fluid Dynamics

**Springer Science & Business Media** This book is dedicated to Pieter J. Zandbergen on the occasion of his sixty-fifth birthday. It contains fourteen original contributions written by specialized authors and deals with the application of mathematics and numerical analysis to a wide variety of problems in fluid dynamics and related fields. At present the research field of computational fluid dynamics is growing strongly and the book is therefore of interest to applied mathematicians, theoretical physicists and engineers.





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## Applied Mechanics Reviews

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**Routledge This book contains some 600 entries on a range of topics from ancient Chinese warfare to late 20th-century intervention operations. Designed for a wide variety of users, it encompasses general reviews of aspects of military organization and science, as well as specific wars and conflicts. The book examines naval and air warfare, as well as significant individuals, including commanders, theorists, and war leaders. Each entry includes a listing of additional publications on the topic, accompanied by an article discussing these publications with reference to their particular emphases, strengths, and limitations.**

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The Reader's Adviser

The Hedgehog and the Fox

An Essay on Tolstoy's View of History - Second Edition

**Princeton University Press** "The fox knows many things, but the hedgehog knows one big thing." This ancient Greek aphorism, preserved in a fragment from the poet Archilochus, describes the central thesis of Isaiah Berlin's masterly essay on Leo Tolstoy and the philosophy of history, the subject of the epilogue to War and Peace. Although there have been many interpretations of the adage, Berlin uses it to mark a fundamental distinction between human beings who

are fascinated by the infinite variety of things and those who relate everything to a central, all-embracing system. Applied to Tolstoy, the saying illuminates a paradox that helps explain his philosophy of history: Tolstoy was a fox, but believed in being a hedgehog. One of Berlin's most celebrated works, this extraordinary essay offers profound insights about Tolstoy, historical understanding, and human psychology. This new edition features a revised text that supplants all previous versions, English translations of the many passages in foreign languages, a new foreword in which Berlin biographer Michael Ignatieff explains the enduring appeal of Berlin's essay, and a new appendix that provides rich context, including excerpts from reviews and Berlin's letters, as well as a startling new interpretation of Archilochus's epigram.

Novye inostrannye knigi, vypisannye BAN SSSR v ...  
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Library Journal

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# Newsletter

## Antiquarian Bookman

### The Survey of the Whole of England

#### Studies of the Documentation Resulting from the Survey Conducted in 1086

**British Archaeological Reports Limited** The manuscript which eventually came to be called "Domesday Book" is a product of the enterprise originally known as the "Descriptio totius Angliae", the survey carried out in 1086, twenty years after the Norman Conquest, by order of King William I. This manuscript does not stand alone. It is the latest of four successive versions of the written record of the survey. Intrinsicly the least valuable, it has gained in value over time, as the earlier versions have dropped out of existence. But they have not disappeared completely. Part of the immediately preceding version survives as the companion volume to "Domesday Book"; part of the version preceding that survives, for some unknown reason, in the library of Exeter Cathedral, even though it was, without any doubt, written in the king's treasury at Winchester. The earliest version of all - the only version in which the data were recorded cadastrally, county by county, hundred by hundred, village by village, manor by manor - has been entirely lost in the original; yet for most of one county a copy survives, in a late twelfth-century manuscript from Ely. This book begins with a sequence of chapters which analyse some aspects of the manuscript evidence, from a new angle, or in closer detail than before, working backwards from the latest version towards the earliest. The last two chapters reassemble the evidence to create a new picture of the conduct of the survey, in both its fieldwork and its post-fieldwork phases.

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