

Numerical methods for viscous flows with moving boundaries

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A review of numerical algorithms for the analysis of viscous flows with moving interfaces is presented. The review is supplemented with a discussion of methods that have been introduced in the context of other classes of free boundary problems, but which can be generalized to viscous flows with moving interfaces. The available algorithms can be classified as Eulerian, Lagrangian, and mixed, ie, Eulerian-Lagrangian. Eulerian algorithms consist of fixed grid methods, adaptive grid methods, mapping methods, and special methods. Lagrangian algorithms consist of strictly Lagrangian methods, Lagrangian methods with remeshing, free Lagrangian methods and particle methods. Mixed methods rely on both Lagrangian and Eulerian concepts. The review consists of a description of the present state-of-the-art of each group of algorithms and their applications to a variety of problems. The existing methods are effective in dealing with small to medium interface deformations. For problems with medium to large deformations the methods produce results that are reasonable from a physical viewpoint; however, their accuracy is difficult to ascertain.

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1. INTRODUCTION

A moving boundary problem is a problem where the domain of interest has an unknown boundary which has to be determined as part of the solution procedure. This is also sometimes referred to as a free boundary problem and/or a moving interface problem. Problems of this class are important in many technological applications in which moving fluid interfaces play a dominant role. Such applications include capillarity, melting and solidification, crystal growth, flame propagation, nuclear fusion, wetting, seepage, metal and glass forming processes, and many other areas in engineering and science. The quantitative description of such problems depends on the understanding of the physical processes taking place on the interfaces and on the

successful solution of the corresponding moving boundary problems. The present state of knowledge in both these areas is far from complete.

The physical conditions occurring at a boundary between two immiscible fluids are described in Batchelor (1967) and Davies and Rideal (1963). When the interface has only the equilibrium property of a uniform surface tension, the appropriate interfacial boundary conditions are

$$\mathbf{V}_A \cdot \mathbf{n} = \mathbf{V}_B \cdot \mathbf{n} = \mathbf{V} \cdot \mathbf{n}, \quad (1)$$

$$\mathbf{V}_A \cdot \mathbf{t} = \mathbf{V}_B \cdot \mathbf{t}, \quad (2)$$

$$\mathbf{n} \cdot (\mathbf{T}_A - \mathbf{T}_B) = 2\alpha \mathbf{e}_n, \quad (3)$$

Numerical Methods For Steady Viscous Freesurface Flows

Nobuyuki Satofuka



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Numerical Methods for Steady Viscous Free-surface Flows E. H. van Brummelen, 2003 **Numerical Methods for Steady Viscous Free-surface Flows** Einar Harald van Brummelen, 2002 *Computational Fluid Dynamics 2000* Nobuyuki Satofuka, 2012-12-06 This volume constitutes the Proceedings of the First International Conference on Computational Fluid Dynamics held at the Kyoto Research Park Kyoto Japan on 10-14 July 2000. The conference is the first one at which the International Conference on Numerical Methods in Fluid Dynamics (ICNMF) and the International Symposium on Computational Fluid Dynamics (ISCFD) were merged. The purpose of the conference was to bring together scientists, mathematicians and engineers to review and share recent advances in mathematical and computational techniques for modeling fluid dynamics. The conference had the following format: Each day of the conference except Wednesday July 12 started with a plenary session at which an invited lecture was delivered. During the rest of the day there were three sessions in parallel in which oral presentations were made. Poster presentations were also made on Monday, Tuesday and Thursday afternoons. A total of 205 abstracts were submitted from all over the world and were evaluated by five paper selection committees chaired by J. J. Chattot (USA), K. W. Morton (UK), M. Napolitano (Italy), K. Srinivas (Austria) and myself. Out of 136 papers accepted for oral presentations, 17 were withdrawn and out of 46 papers accepted for poster presentation, 14 were cancelled. **The Finite Element Method for Fluid Dynamics** R. L. Taylor, P. Nithiarasu, 2024-11-20 The Finite Element Method for Fluid Dynamics provides a comprehensive introduction to the application of the finite element method in fluid dynamics. The book begins with a useful summary of all relevant partial differential equations, progressing to the discussion of convection stabilization procedures, steady and transient state equations and numerical solution of fluid dynamic equations. In this expanded eighth edition, the book starts by explaining the characteristic-based split CBS scheme, followed by an exploration of various other methods including SUPG, PSPG, space-time and VMS methods. Emphasising the fundamental knowledge, mathematical and analytical tools necessary for successful implementation of computational fluid dynamics (CFD), The Finite Element Method for Fluid Dynamics stands as the authoritative introduction of choice for graduate level students, researchers and professional engineers. A proven keystone reference in the library for engineers seeking to grasp and implement the finite element method in fluid dynamics. Founded by a prominent pioneer in the field, this eighth edition has been updated by distinguished academics who worked closely with Olgierd C. Zienkiewicz. Includes new chapters on data-driven computational fluid dynamics and independent adaptive mesh and buoyancy-driven flow chapters.

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computational techniques for modeling fluid dynamics The Finite Element Method for Fluid Dynamics O. C. Zienkiewicz, R. L. Taylor, P. Nithiarasu, 2005-12-08 Dealing with general problems in fluid mechanics convection diffusion compressible and incompressible laminar and turbulent flow shallow water flows and waves this is the leading text and reference for engineers working with fluid dynamics in fields including aerospace engineering vehicle design thermal engineering and many other engineering applications The new edition is a complete fluids text and reference in its own right Along with its companion volumes it forms part of the indispensable Finite Element Method series New material in this edition includes sub grid scale modelling artificial compressibility full new chapters on turbulent flows free surface flows and porous medium flows expanded shallow water flows plus long medium and short waves and advances in parallel computing A complete stand alone reference on fluid mechanics applications of the FEM for mechanical aeronautical automotive marine chemical and civil engineers Extensive new coverage of turbulent flow and free surface treatments **MARINE 2011, IV International Conference on Computational Methods in Marine Engineering** Luís Eça, Eugenio Oñate, Julio García-Espinosa, Trond Kvamsdal, Pål Bergan, 2013-03-19 This book contains selected papers from the Fourth International Conference on Computational Methods in Marine Engineering held at Instituto Superior Técnico Technical University of Lisbon Portugal in September 2011 Nowadays computational methods are an essential tool of engineering which includes a major field of interest in marine applications such as the maritime and offshore industries and engineering challenges related to the marine environment and renewable energies The 2011 Conference included 8 invited plenary lectures and 86 presentations distributed through 10 thematic sessions that covered many of the most relevant topics of marine engineering today This book contains 16 selected papers from the Conference that cover CFD for Offshore Applications Fluid Structure Interaction Isogeometric Methods for Marine Engineering Marine Offshore Renewable Energy Maneuvering and Seakeeping Propulsion and Cavitation and Ship Hydrodynamics The papers were selected with the help of the recognized experts that collaborated in the organization of the thematic sessions of the Conference which guarantees the high quality of the papers included in this book *Applied Mechanics Reviews* ,1989 **Numerical Methods for Free-boundary Problems** Yih-Yih Lin, 1982 **Numerical Methods for Fluid Dynamics VI** Michael John Baines, 1998 **Numerical Analysis of Forming Processes** J. F. T. Pittman, 1984 **Numerical Methods in Laminar and Turbulent Flow** ,1993 **Free Boundary Problems** Karl-Heinz Hoffmann, J. Sprekels, 1990 **Computational Techniques and Applications, CTAC-89** William L. Hogarth, John Noye, 1990 The main lectures delivered at the conference covered such topics as inverse problems in industry the application of computer intensive statistical methods in earth sciences and the conjugate gradient method in earth sciences 90 research papers were also presented **Papers Presented at the AIAA Thermophysics, Plasmadynamics and Lasers Conference** ,1988 **Numerical Methods in Fluid Flow Problems: 1970-1974** United States. National Technical Information Service, 1975 **Numerical Methods in Thermal Problems** ,1989 *Instability of Flows* Matiuir

Rahman, 2005 A state of the art analysis of studies in the field of instability of flows this book contains chapters by leading experts in fluid mechanics One of the primary aims of the contributors is to determine fruitful directions for future advanced studies and research *Free-surface Flow Around a Vertical Strut in a Real Fluid* Xing Yu (Ph. D.), 1996 **Canadian Journal of Civil Engineering** , 2007

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