

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, i.e., 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 recoding, 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

numerical 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 Davis and Rideal (1963). When the interface has only the equilibrium property of a uniform surface tension, the appropriate interfacial boundary conditions are

$$V_A \cdot n = V_B \cdot n = V \cdot n, \quad (1)$$

$$V_A \cdot t = V_B \cdot t, \quad (2)$$

$$\sigma \cdot (T_A - T_B) = 2\pi\gamma, \quad (3)$$

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Nobuyuki Satofuka

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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**

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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* Matiur

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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