

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.

CONTENTS

1. Introduction	323	2.4. Special methods	332
2. Eulerian Methods	325	3. Lagrangian Methods	332
2.1. Fixed grid methods	325	3.1. Strictly Lagrangian methods	333
A. Interface tracking (surface and volume)	325	3.2. Lagrangian methods with remeshing	333
B. Algorithms (MAB, SOLA-WOP, etc)	327	3.3. Free Lagrangian methods	334
2.2. Adaptive grid methods (FDM, FEM)	329	3.4. Particle methods	335
A. Algorithms for steady flows	329	A. Particle-particle models	335
B. Algorithms for unsteady flows	330	B. Particle-mesh models	335
C. Treatment of contact lines	331	4. Mixed Eulerian-Lagrangian methods	336
2.3. Mapping methods (steady and unsteady flows)	331	5. Discussion	337
		Acknowledgments	337
		References	337

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

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

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

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

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1. Understanding the eBook Numerical Methods For Steady Viscous Freesurface Flows
 - The Rise of Digital Reading Numerical Methods For Steady Viscous Freesurface Flows
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Methods For Steady Viscous Freesurface Flows
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Methods For Steady Viscous Freesurface Flows
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Methods For Steady Viscous Freesurface Flows
 - Personalized Recommendations
 - Numerical Methods For Steady Viscous Freesurface Flows User Reviews and Ratings
 - Numerical Methods For Steady Viscous Freesurface Flows and Bestseller Lists

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 - Numerical Methods For Steady Viscous Freesurface Flows eBook Subscription Services
 - Numerical Methods For Steady Viscous Freesurface Flows Budget-Friendly Options
6. Navigating Numerical Methods For Steady Viscous Freesurface Flows eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerical Methods For Steady Viscous Freesurface Flows Compatibility with Devices
 - Numerical Methods For Steady Viscous Freesurface Flows Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Methods For Steady Viscous Freesurface Flows
 - Highlighting and Note-Taking Numerical Methods For Steady Viscous Freesurface Flows
 - Interactive Elements Numerical Methods For Steady Viscous Freesurface Flows
8. Staying Engaged with Numerical Methods For Steady Viscous Freesurface Flows
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Methods For Steady Viscous Freesurface Flows
9. Balancing eBooks and Physical Books Numerical Methods For Steady Viscous Freesurface Flows
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Methods For Steady Viscous Freesurface Flows
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Numerical Methods For Steady Viscous Freesurface Flows
 - Setting Reading Goals Numerical Methods For Steady Viscous Freesurface Flows
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Numerical Methods For Steady Viscous Freesurface Flows
 - Fact-Checking eBook Content of Numerical Methods For Steady Viscous Freesurface Flows
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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