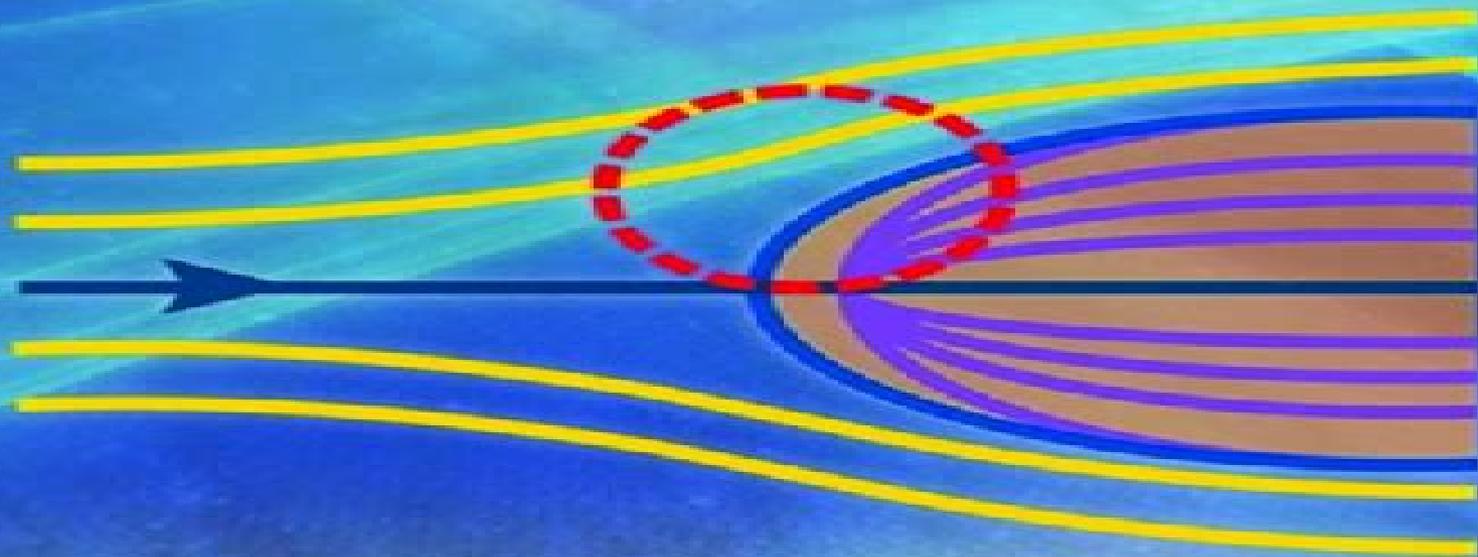


INTRODUCTION TO THEORETICAL AERODYNAMICS AND HYDRODYNAMICS

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ideas and methods of group analysis which were developed by I. V. Ovsyannikov and his school. The authors rank themselves as disciples of the school. The present monograph deals mainly with group theoretic classification of the equations of hydrodynamics in the presence of planar and rotational symmetry and also with construction of exact solutions and their physical interpretation. It is worth noting that the concept of exact solution to a differential equation is not defined rigorously; different authors understand it in different ways. The concept of exact solution expands along with the progress of mathematics: solutions in elementary functions, in quadratures, and in special functions; solutions in the form of convergent series with effectively computable terms; solutions whose searching reduces to integrating ordinary differential equations, etc. We consider it justifiable to enrich the set of exact solutions with rank one and rank two invariant and partially invariant solutions to the equations of hydrodynamics.

Injection and Combustion of Liquid Fuels A. A. Putnam, F. Benington, H. Einbinder, H. R. Hazard, J. D. Kettelle (Jr.), A. Levy, C. C. Miesse, J. M. Pilcher, R. E. Thomas, A. E. Weller, B. A. Landry, 1957

Theoretical Hydrodynamics Ivan A. Kibel, N. E. Kochin, **Boundary-Layer Theory** Hermann Schlichting, Klaus Gersten, 2003-05-20. A new edition of the almost legendary textbook by Schlichting completely revised by Klaus Gersten is now available. This book presents a comprehensive overview of boundary layer theory and its application to all areas of fluid mechanics with emphasis on the flow past bodies, e.g. aircraft aerodynamics. It contains the latest knowledge of the subject based on a thorough review of the literature over the past 15 years. Yet again it will be an indispensable source of inexhaustible information for students of fluid mechanics and engineers alike.

Transactions - North East Coast Institution of Engineers and Shipbuilders North East Coast Institution of Engineers and Shipbuilders, 1929. List of members in each volume.

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Table of Contents Theoretical Hydrodynamics

1. Understanding the eBook Theoretical Hydrodynamics
 - The Rise of Digital Reading Theoretical Hydrodynamics
 - Advantages of eBooks Over Traditional Books
2. Identifying Theoretical Hydrodynamics
 - 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 Theoretical Hydrodynamics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Theoretical Hydrodynamics
 - Personalized Recommendations
 - Theoretical Hydrodynamics User Reviews and Ratings
 - Theoretical Hydrodynamics and Bestseller Lists
5. Accessing Theoretical Hydrodynamics Free and Paid eBooks
 - Theoretical Hydrodynamics Public Domain eBooks
 - Theoretical Hydrodynamics eBook Subscription Services
 - Theoretical Hydrodynamics Budget-Friendly Options

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