

# Road Vehicle Aerodynamic Design *SECOND EDITION*

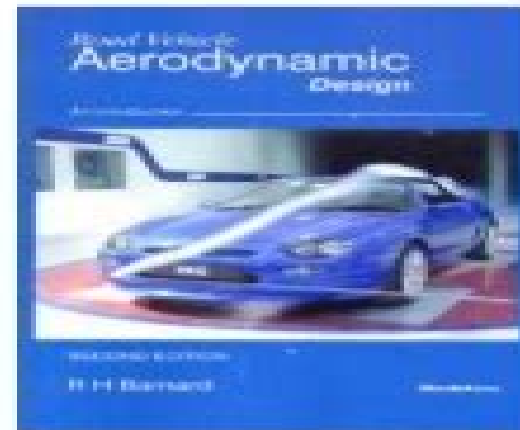
R. H. Barnard BSc Eng, M Phil, PhD, CEng, FRAeS

By popular demand, this book has now been revised and republished in a new edition

Provides a comprehensive introduction to the subject of road vehicle aerodynamics for students, engineers and designers working in the automotive field. Assuming no prior specialist knowledge, the book concentrates on the physical principles involved. Although the approach is largely non-mathematical, quantitative data are given, together with some basic formulae and examples of their use. Practical design implications are stated, and illustrated by examples of current and historical vehicles.

## Contents

1. Understanding airflows
2. Drag and lift forces
3. The influence of aerodynamics on economy and performance
4. The aerodynamic design of family cars
5. Commercial vehicles
6. Racing cars and other high-performance vehicles
7. Internal airflows: ventilation, heating, air conditioning and noise
8. Internal comfort, heating air-conditioning and noise
9. Open cabriolets
10. Vehicles in cross winds
11. Wind tunnel and road testing
12. Computational Fluid dynamics (CFD) methods



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By R. H. Barnard

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# Road Vehicle Aerodynamic Design Second Edition

**Wolf-Heinrich Hucho**



## **Road Vehicle Aerodynamic Design Second Edition:**

**Road Vehicle Aerodynamic Design** R. H. Barnard, 2009      Road Vehicle Aerodynamics J. Anthoine, Löfdahl. L., 2005

Hucho - Aerodynamik des Automobils Thomas Schütz, 2013-09-12 Leistung Fahrverhalten und Komfort eines Automobils werden nachhaltig von seinen aerodynamischen Eigenschaften bestimmt Ein niedriger Luftwiderstand ist die Voraussetzung dafür dass die hochgesteckten Verbrauchsziele erreicht werden Die Aerodynamik des Automobils ist 1981 erstmalig erschienen und seitdem zu einem Standardwerk geworden Der Stoff ist von Praktikern erarbeitet worden die aus einer Vielzahl von Versuchen strömungsmechanische Zusammenhänge ableiten und Strategien beschreiben Bei unveränderter Gesamtkonzeption wurden für die 6. Auflage neue Ergebnisse zum induzierten Widerstand und zur Haltung der Fahrtrichtung bei Seitenwind aktualisiert Völlig neu wurden die Kapitel über Khlung und Durchströmung HVAC sowie über Motorradaerodynamik numerische Methoden wie CFD und CAA erarbeitet      **Aerodynamics of Road Vehicles**

Wolf-Heinrich Hucho, 2013-10-22 Aerodynamics of Road Vehicles details the aerodynamics of passenger cars commercial vehicles sports cars and race cars their external flow field as well as their internal flow field The book after giving an introduction to automobile aerodynamics and some fundamentals of fluid mechanics covers topics such as the performance and aerodynamics of different kinds of vehicles as well as test techniques for their aerodynamics The book also covers other concepts related to automobiles such as cooling systems and ventilations for vehicles The text is recommended for mechanical engineers and physicists in the automobile industry who would like to understand more about aerodynamics of motor vehicles and its importance on the field of road safety and automobile production      **Modifying the Aerodynamics of Your Road Car** Julian Edgar, 2018 Want to improve handling straight line performance or fuel economy In that case you will achieve best results by modifying your vehicle's aerodynamics This handbook is a must read that takes you from testing the standard car through to making sophisticated aerodynamic modifications that have real impact      **Aerodynamics for**

**Engineering Students** E. L. Houghton, P. W. Carpenter, 2003-02-12 Aerodynamics for Engineering Students Fifth Edition is the leading course text on aerodynamics The book has been revised to include the latest developments in flow control and boundary layers and their influence on modern wing design as well as introducing recent advances in the understanding of fundamental fluid dynamics Computational methods have been expanded and updated to reflect the modern approaches to aerodynamic design and research in the aeronautical industry and elsewhere and the structure of the text has been developed to reflect current course requirements The book is designed to be accessible and practical Theory is developed logically within each chapter with notation symbols and units well defined throughout and the text is fully illustrated with worked examples and exercises The book recognizes the extensive use of computational techniques in contemporary aeronautical design However it can be used as a stand alone text reflecting the needs of many courses in the field for a thorough grounding in the underlying principles of the subject The book is an ideal resource for undergraduate and

postgraduate students in aeronautical engineering The classic text expanded and updated Includes latest developments in flow control boundary layers and fluid dynamics Fully illustrated throughout with illustrations worked examples and exercises

***Aerodynamics of Road Vehicles*** Thomas Christian Schuetz, 2015-12-30 The detailed presentation of fundamental aerodynamics principles that influence and improve vehicle design have made *Aerodynamics of Road Vehicles* the engineer's source for information This fifth edition features updated and expanded information beyond that which was presented in previous releases Completely new content covers lateral stability safety and comfort wind noise high performance vehicles helmets engine cooling and computational fluid dynamics A proven successful engineering design approach is presented that includes Fundamentals of fluid mechanics related to vehicle aerodynamics Essential experimental results that are the ground rules of fluid mechanics Design strategies for individual experimental results General design solutions from combined experimental results The aerodynamics of passenger cars commercial vehicles motorcycles sports cars and race cars is dealt with in detail inclusive of systems testing techniques measuring and numerical aerodynamics methods and simulations that significantly contribute to vehicle development *Aerodynamics of Road Vehicles* is an excellent reference tool and an indispensable source for the industry's vehicle engineers designers and researchers as well as for enthusiasts students and those working in academia or government regulatory agencies

***Aerodynamik der stumpfen Körper*** Wolf-Heinrich Hucho, 2012-03-14 Die aerodynamische Gestaltung von Fahrzeugen wie Automobile und Eisenbahnen von Bauwerken wie weit gespannte Brücken Türme oder Hochhäuser ist eine äußerst vielschichtige Aufgabe Ihre Auslegung basiert auf ingenieurmäßigen Verfahren aber ihre Optimierung vorwiegend auf dem Prinzip von Trial Error Dabei erweist es sich als nützlich das anstehende Problem auf möglichst einfache Modellfälle zurückzuführen Das vorliegende Buch stellt die dazu erforderlichen Grundlagen bereit und beschreibt wie sie anzuwenden sind Gegenüber der ersten Auflage wurde das Buch vollkommen bearbeitet und erweitert um die neuen Windlastnormen die Seitenwindstabilität von schnellen Zügen sowie die Wechselwirkung von Aerodynamik und Statik biegegeweicher Konstruktionen Das Kapitel über die numerischen Verfahren CFD wurde auf den allerneuesten Stand gebracht

***Road Vehicle Aerodynamic Design*** R. H. Barnard, 1996 This text provides a comprehensive introduction to road vehicle aerodynamic design for students engineers and designers working in the automotive field

***An Introduction to Modern Vehicle Design*** Julian Happian-Smith, 2001 An Introduction to Modern Vehicle Design provides a thorough introduction to the many aspects of passenger car design in one volume Starting with basic principles the author builds up analysis procedures for all major aspects of vehicle and component design Subjects of current interest to the motor industry such as failure prevention designing with modern materials ergonomics and control systems are covered in detail and the author concludes with a discussion on the future trends in automobile design With contributions from both academics lecturing in motor vehicle engineering and those working in the industry An Introduction to Modern Vehicle Design provides students with an excellent overview and background in the design of vehicles before they

move on to specialised areas Filling the niche between the more descriptive low level books and books which focus on specific areas of the design process this unique volume is essential for all students of automotive engineering

**Aerodynamik des Automobils** Wolf-Heinrich Hucho, 2015-02-27 Leistung Fahrverhalten und Komfort eines Automobils werden nachhaltig von seinen aerodynamischen Eigenschaften bestimmt Ein niedriger Luftwiderstand ist die Voraussetzung dafür dass die hochgesteckten Verbrauchsziele erreicht werden Die Aerodynamik des Automobils ist 1981 erstmalig erschienen und ist seitdem zu einem Standardwerk geworden Sie gilt als Pflichtlektüre für jeden neuen Mitarbeiter in der Aerodynamik Der Stoff ist von Praktikern erarbeitet worden die aus einer Vielzahl von Versuchsströmungsmechanische Zusammenhänge ableiten und Strategien beschreiben Theory and Applications of Aerodynamics for Ground Vehicles T Yomi Obidi, 2014-03-20 This book provides an introduction to ground vehicle aerodynamics and methodically guides the reader through the various aspects of the subject Those needing specific information or a refresher can easily jump to the material of interest There is a particular emphasis on various vehicle types passenger cars trucks trains motorcycles race cars etc However the book is focused on cars and trucks which are the most common vehicles in the speed range in which the study of ground vehicle aerodynamics is beneficial Readers will gain a fundamental understanding of the topic which will help them design vehicles that have improved aerodynamics this will lead to better fuel efficiency improved performance and increased passenger comfort The author's basic approach to the presentation of the material is complemented with review questions application questions exercises and suggested projects at the end of most of the chapters which helps the reader apply the information presented either in the classroom or for self study Aside from offering a solid understanding of ground vehicle aerodynamics the book also offers more thorough study of several key topics One such topic is car truck interaction when one vehicle usually the smaller one is overtaking the other There is a direct and instant benefit in terms of safety on the highway from understanding the forces at play when one vehicle passes the other in the same direction and sense Chapters examine Drag Noise and vehicle soiling Wind tunnels and road track testing Numerical methods Vehicle stability and control Vehicle sectional design Large vehicles trucks trailers buses trains Severe service and off road vehicles Race cars and convertibles Motorcycles Concept vehicles **The BMW Century, 2nd Edition** Tony Lewin, 2022-07-19 The BMW Century details more than one hundred years of BMW from its historic aviation roots to today's trend setting cars and motorcycles

Advances in Mechanism and Machine Science Tadeusz Uhl, 2019-06-13 This book gathers the proceedings of the 15th IFToMM World Congress which was held in Krakow Poland from June 30 to July 4 2019 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics

standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations

*The Aerodynamics of Heavy Vehicles: Trucks, Buses, and Trains* Rose McCallen, Fred Browand, James Ross, 2013-07-30 It is our pleasure to present these proceedings from the United Engineering Foundation Conference on The Aerodynamics of Heavy Vehicles Trucks Buses and Trains held December 2 6 2002 in Monterey California This Department of Energy United Engineering Foundation and industry sponsored conference brought together 90 leading engineering researchers from around the world to discuss the aerodynamic drag of heavy vehicles Participants from national labs academia and industry including truck manufacturers discussed how computer simulation and experimental techniques could be used to design more fuel efficient trucks buses and trains Conference topics included comparison of computational fluid dynamics calculations using both steady and unsteady Reynolds averaged Navier Stokes large eddy simulation and hybrid turbulence models and experimental data obtained from the Department of Energy sponsored and other wind tunnel experiments Advanced experimental techniques including three dimensional particle image velocimetry were presented along with their use in evaluating drag reduction devices We would like to thank the UEF conference organizers for their dedication and quick response to sudden deadlines In addition we would like to thank all session chairs the scientific advisory committee authors and reviewers for their many hours of dedicated effort that contributed to a successful conference and resulted in this document of the conference proceedings We also gratefully acknowledge the support received from the United Engineering Foundation the US Department of Energy Lawrence Livermore National Laboratory Volvo Trucks America International Truck and Engine Corporation and Freightliner LLC

**Prospects for Electric Cars** William Hamilton, 1978

**Information Sources in Engineering** Roderick A. Macleod, Jim Corlett, 2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products electronic full text services abstract and indexing services bibliographies reviews internet sources reference works and publications of professional associations Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues Furthermore this title is of great value to students and

people with technical professions      **The International Vehicle Aerodynamics Conference** IMechE,2014-11-12

Aerodynamics has never been more central to the development of cars commercial vehicles motorbikes trains and human powered vehicles driven by the need for efficiency reducing carbon dioxide emissions reducing fuel consumption increasing range and alleviating problems associated with traffic congestion Reducing vehicle weight makes it more challenging to ensure that they are stable and handle well over a wide range of environmental conditions Lighter structures are also more vulnerable to aerodynamically induced vibration Alongside this customers demand an environment that is quiet comfortable and maintains their vision of the world around them in all weathers These aims must be met by designing vehicles that engage customers emotionally promoting the brand values of manufacturers and operators This can only be done by collaboration between designers and aerodynamicists Examine the latest developments in vehicle aerodynamic development Explore opportunities to network and share experiences around different areas Focus on future challenges and the engineering knowledge and technology required to resolve them Discuss other areas of development including handling and stability tyre aerodynamics and modelling aeroacoustics and fluid structure interaction      **NASA Tech Briefs** ,1984

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## **Table of Contents Road Vehicle Aerodynamic Design Second Edition**

1. Understanding the eBook Road Vehicle Aerodynamic Design Second Edition
  - The Rise of Digital Reading Road Vehicle Aerodynamic Design Second Edition
  - Advantages of eBooks Over Traditional Books
2. Identifying Road Vehicle Aerodynamic Design Second Edition
  - 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 Road Vehicle Aerodynamic Design Second Edition
  - User-Friendly Interface
4. Exploring eBook Recommendations from Road Vehicle Aerodynamic Design Second Edition
  - Personalized Recommendations
  - Road Vehicle Aerodynamic Design Second Edition User Reviews and Ratings
  - Road Vehicle Aerodynamic Design Second Edition and Bestseller Lists
5. Accessing Road Vehicle Aerodynamic Design Second Edition Free and Paid eBooks
  - Road Vehicle Aerodynamic Design Second Edition Public Domain eBooks



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