



Wind Tunnel Testing For Automobiles

Sebastian Brünink



Wind Tunnel Testing For Automobiles:

Aerodynamic Testing of Road Vehicles--Open Throat Wind Tunnel Adjustment Road Vehicle Aerodynamics Forum Committee,1990 As a simulation of road driving wind tunnel testing of full size vehicles produces certain errors in the aerodynamic forces aerodynamic moments and surface pressures The magnitude of these errors in general depends on the following a Flow quality b Determination of the reference dynamic pressure c Wind tunnel floor boundary layer d Test section geometry and position of the car within that geometry e Shape of the vehicle f Blockage ratio The ratio of the cross sectional area of the vehicle to the cross sectional area of the wind tunnel nozzle g Wheel rotation and h Internal flow in the model The SAE Standards Committee Open Throat Wind Tunnel Adjustments had as a goal to document the knowledge of the influence of model interference on wind tunnel test results for automotive open jet wind tunnels This document contains the following information related to this subject a Design data of open throat wind tunnels b A summary of published and unpublished test data c Documentation and theoretical explanation of various blockage correction procedures for automotive tests d Critical evaluation of blockage correction procedures especially in relation to other influences such as test section geometry position of the car floor boundary layer etc and e Recommendation of a calibration procedure to determine the effect of blockage and other influences in each individual wind tunnel

Low-Speed Wind Tunnel Testing Jewel B. Barlow,William H. Rae,Alan Pope,1999-02-22 A brand new edition of the classic guide on low speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years low speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems This long awaited Third Edition of William H Rae Jr s landmark reference brings together essential information on all aspects of low speed wind tunnel design analysis testing and instrumentation in one easy to use resource Written by authors who are among the most respected wind tunnel engineers in the world this edition has been updated to address current topics and applications and includes coverage of digital electronics new instrumentation video and photographic methods pressure sensitive paint and liquid crystal based measurement methods The book is organized for quick access to topics of interest and examines basic test techniques and objectives of modeling and testing aircraft designs in low speed wind tunnels as well as applications to fluid motion analysis automobiles marine vessels buildings bridges and other structures subject to wind loading Supplemented with real world examples throughout Low Speed Wind Tunnel Testing Third Edition is an indispensable resource for aerospace engineering students and professionals engineers and researchers in the automotive industries wind tunnel designers architects and others who need to get the most from low speed wind tunnel technology and experiments in their work

Wind Tunnel Testing for an Automotive Vehicle Jian Wei Lim,2002

Wind Tunnel Test Techniques Colin Britcher,Drew Landman,2023-10-20 Wind Tunnel Test Techniques Design and Use at Low and High Speeds with Statistical Engineering Applications provides an up to date treatment of the topic Beginning with a brief history

of wind tunnels and its types and uses the book goes on to cover subsonic supersonic and hypersonic wind tunnel design and construction calibration boundary corrections flow quality assessment pressure surveys and dynamic testing It also focuses on wind tunnel facilities making it useful for both the designer and operator Engineers and graduate students in aerospace automotive and similar programs will find this book useful in their work with experimental aerodynamics gas dynamics facility design and performance Deals with a broad range of flow speeds in wind tunnels from low speed to high speed Provides a discussion of similarity laws as well as material on statistical analysis Includes coverage on facility to facility and facility to CFD correlation Presents advanced topics such as cryogenic wind tunnels ground simulation in automotive testing and propulsion testing

Wind-tunnel Investigation of a 3/8-scale Automobile Model Over a Moving-belt Ground

Plane Thomas R. Turner,1967 **Some Problems Concerning Wind Tunnel Testing of Automotive Vehicles** D. S.

Gross,W. S. Sekscienski,1966 **Aerodynamics of Automobiles, a Study of Related Wind Tunnel Testing; Ferrari**

Automobiles Incorporated, a Survey of William Michael Hayman,1961 *Early Wind Tunnel Testing at Ford* A. H.

Esper,Society of Automotive Engineers,1960 **Space shuttle wind tunnel testing program summary** A. M.

Whitnah,1984 Automotive Wind Tunnel Design, Test Results, and Correlations ,1982-01-01 **Apollo Wind Tunnel**

Testing Program William C. Moseley (Jr.),Joseph C. Martino,1966 *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

Theory of Ground Vehicles J. Y. Wong,2008-08-04 Technology Engineering Automotive Engineering for advancing ground

vehicle mobility A standard text and reference for both the educational and professional communities Theory of Ground Vehicles gives aspiring and practicing engineers a fundamental understanding of the critical factors affecting the performance handling and ride essential to the development and design of ground vehicles In view of the growing concerns over environmental impact energy efficiency and safety this new Fourth Edition has been revised and expanded to address these issues and other developments in the field Retaining the contents and format of previous editions the Fourth Edition introduces new material to reflect recent advances in ground transportation technology including Computer aided methods for design and performance evaluation of off road vehicles and their practical applications Emissions and fuel economy Hybrid electric drives and fuel cells and their operating principles Selection of vehicle configurations for off road operations Road vehicle stability control ISO 2631 1 1997 and its applications to evaluating vehicle ride characteristics As in previous editions this book focuses on applying engineering principles to the analysis of vehicle behavior A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice With its broad coverage and pedagogical aids Theory of Ground Vehicles Fourth Edition remains the text of choice for students engineers and researchers wishing to master and apply basic theory to solve real world road and off road vehicle mobility problems

V/STOL Wind-tunnel Testing ,1984 Scientific and Technical Aerospace Reports ,1994 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 Proceedings of the 2018 Asia-Pacific International Symposium on Aerospace Technology (APISAT 2018)** Xinguo

Zhang,2019-06-08 This book is a compilation of peer reviewed papers from the 2018 Asia Pacific International Symposium on Aerospace Technology APISAT 2018 The symposium is a common endeavour between the four national aerospace societies in China Australia Korea and Japan namely the Chinese Society of Aeronautics and Astronautics CSAA Royal Aeronautical Society Australian Division RAeS Australian Division the Korean Society for Aeronautical and Space Sciences KSAS and the Japan Society for Aeronautical and Space Sciences JSASS APISAT is an annual event initiated in 2009 to provide an opportunity for researchers and engineers from Asia Pacific countries to discuss current and future advanced topics in aeronautical and space engineering

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

NASA Thesaurus ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved

New Trends and Developments in Automotive Industry Marcello Chiaberge,2011-01-08 This book is divided in five main parts production technology system production machinery design and materials and tries to show emerging solutions in automotive industry fields related to OEMs and no OEMs sectors in order to show the vitality of this leading industry for worldwide economies and related important impacts on other industrial sectors and their environmental sub products

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