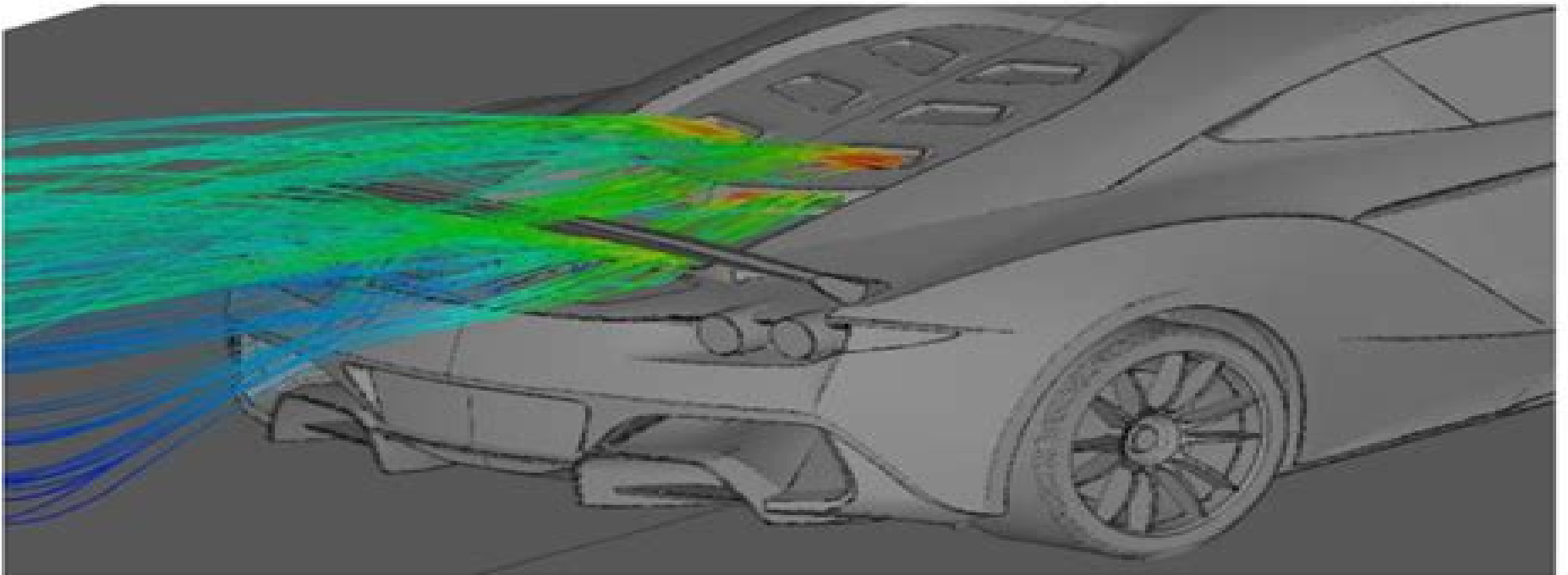
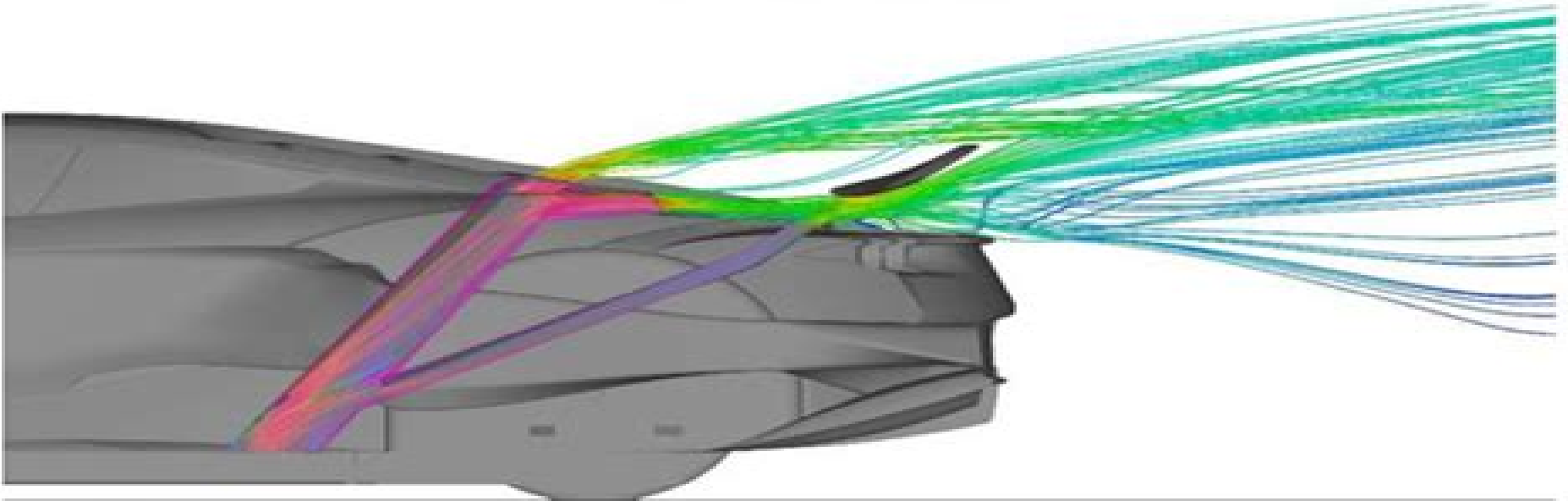


Velocity in m/s

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Road Vehicle Aerodynamics

Thomas Christian Schuetz

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Road Vehicle Aerodynamics:

Aerodynamics of Road Vehicles Syed R. Ahmed, 1998 For years engineers have turned to Aerodynamics of Road Vehicles as their bible on this field The fourth edition continues this tradition Much of the material has been substantially revised and new chapters on wind noise and motorcycles have been added Aerodynamics of Road Vehicles thoroughly covers the fundamental principles that influence vehicle performance handling safety and comfort An excellent introduction to the topic for the novice or student and a useful refresher and reference for the expert the book focuses on The fundamentals of fluid dynamics as related to vehicle aerodynamics Specific experimental results Design strategies showing how existing individual results can be applied to specific problems Development techniques as related to different types of wind tunnels on road tests and numerical methods The aerodynamics of passenger cars commercial vehicles sports and race cars and motorcycles are dealt with in detail Related fields that are influenced by aerodynamics are also covered including the effects of aerodynamics on fuel economy directional stability engine cooling and passenger comfort Contents include Introduction to Automobile Aerodynamics including a section on its history Some Fundamentals of Fluid Mechanics Performance of Cars and Light Trucks Aerodynamics Drag of Passenger Cars Directional Stability Function Safety and Comfort Wind Noise High Performance Vehicles Commercial Vehicles Motorcycles Engine Cooling Heating Ventilating and Air Conditioning of Passenger Cars Wind Tunnels Measurement and Test Techniques Computational Fluid Dynamics Aerodynamics of Road Vehicles is an indispensable book for vehicle engineers designers researchers and those working in government regulatory agencies It is also an excellent introduction for students and an insightful look for the enthusiast at why vehicles behave as they do The book covers aerodynamic principles of Passenger cars Commercial vehicles Sports and race car Motorcycles By reading this book vehicle engineers and designers will be able to Apply general rules to solve your own design problems Develop test techniques and design strategies to maximise aerodynamic effectiveness Car enthusiasts will gain an understanding of Why vehicles behave as they do The factors affecting vehicle performance handling safety and comfort Students will learn The fundamentals of aerodynamics and its application in the real world of vehicle design How to apply specific experimental results as general rules to solve design problems P

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 phycisists 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

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 **Road Vehicle Aerodynamics** A. J. Scibor-Rylski,1984 **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 Advanced in Road Vehicle Aerodynamics not held). International Symposium on Road Vehicle Aerodynamics (2nd : 1973 : Projected,1973 **Road Vehicle Dynamics: Fundamentals Of Modeling And Simulation** Giancarlo Genta,Alessandro Genta,2016-12-28 Road Vehicle Dynamics supplies students and technicians working in industry with both the theoretical background of mechanical and automotive engineering and the know how needed to perform numerical simulations Bringing together the foundations of the discipline and its recent developments in a single text the book is structured in three parts it begins with a historical overview of road vehicles then deals with the forces exchanged between the vehicle and the road and the vehicle and the air and finally deals with the dynamic behavior of the vehicle in normal driving conditions with some extensions towards conditions encountered in high speed racing Coverage of contemporary automatic controls is included in this edition **Modifying the Aerodynamics of Your Road Car** Julian Edgar,Richard H. Barnard,2019-01-08 Modifying the Aerodynamics of Your Road Car is a unique handbook that assumes no starting knowledge of vehicle aerodynamics It begins with simple ideas and finishes with sophisticated and effective aerodynamic modifications that work Three major chapters cover on road testing techniques that give you all the information you need to decide what modifications you should make and after you ve made them how well they work Low cost techniques allow you to visualize the patterns of airflow over your car so that you can actually see the problem areas that need improvement Uniquely you re also shown how to measure aerodynamic pressures so you can determine which body surfaces are creating lift drag and downforce Want to work out where a wing should be placed On road testing to find that out is covered as well The book also shows you how to measure downforce to see if that wing is actually working If you wish to

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Aerodynamic Testing of Road Vehicles - Testing Methods and Procedures Road Vehicle Aerodynamics Forum Committee,2016 The scope of this SAE Information Report is confined to wind tunnel testing although it is recognized that many aspects of the aerodynamic characteristics of road vehicles can be investigated in other test facilities such as water tanks or especially on the road For example coastdown testing is often used to determine aerodynamic drag either in isolation or as part of the total resistance and artificial gust generators are used to investigate the sensitivity of vehicles to cross wind gusts Also excluded from the present Report are climatic wind tunnel tests of road vehicles which are defined in more detail in Section 3 The Report covers the aerodynamic requirements of a wind tunnel for automotive testing together with the facility equipment needed and the requirements affecting the test vehicle or model The test methods and procedures described here include those for six component force measurements and measurements of pressures and velocities both on the vehicle model surface and in the surrounding flow field Flow visualization techniques are outlined with reference to the detailed coverage in a related SAE Information Report 2 In addition the reduction analysis and presentation of wind tunnel data are considered with further references to associated SAE Information Reports 3 4 on corrections to be applied for wind tunnel blockage effects Finally methods are discussed for the validation of the wind tunnel data e g by tunnel to road correlation studies As already indicated this document has been prepared in conjunction with a number of other SAE Information Reports and Recommended Practices 1 5 each of which provides greater detail than is given here on its particular aspect of automotive aerodynamic testing Much of the information presented in this document is mature and unlikely to change in the foreseeable future The remainder relating particularly to moving ground simulation and blockage correction techniques is nevertheless judged by the Road Vehicle Aerodynamics Committee to be of historical significance To supplement its contents users are encouraged to consult more recent revisions of J1252 J1594 and J2881 as well as relevant SAE conference papers published since the 1993 issue of this document

Aerodynamic Drag Mechanisms of Bluff Bodies and Road Vehicles Gino Sovran,2012-12-06 These Proceedings contain

the papers and oral discussions presented at the Symposium on AERODYNAMIC DRAG MECHANISMS of Bluff Bodies and Road Vehicles held at the General Motors Research Laboratories in Warren Michigan on September 27 and 28 1976 This international invitational Symposium was the twentieth in an annual series each one having been in a different technical discipline The Symposia provide a forum for areas of science and technology that are of timely interest to the Research Laboratories as well as the technical community at large and in which personnel of the Laboratories are actively involved The Symposia furnish an opportunity for the exchange of ideas and current knowledge between participating research specialists from educational industrial and governmental institutions and serve to stimulate future research activity The present world wide energy situation makes it highly desirable to reduce the force required to move road vehicles through the atmosphere A significant amount of the total energy consumed for transportation is expended in overcoming the aerodynamic resistance to motion of these vehicles Reductions in this aerodynamic drag can therefore have a large impact on ground transportation energy requirements Although aerodynamic development work on road vehicles has been performed for many years it has not been widely reported or accompanied by much basic research

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