

Compeon Car Aerodynamics Simon Mcbeath

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From historical background to state of the art techniques, and with chapters covering airdams, splitters, spoilers, wings, underbodies and myriad miscellaneous devices, Competition Car Aerodynamics 3rd Edition also features in-depth case studies from across the motorsport spectrum to help develop a comprehensive understanding of the subject.

Aerodynamics is a science in itself, and is one of the most important factors in modern competition car design. This fully updated second edition covers all aspects of aerodynamics, including both downforce and drag. This complex subject is explained in down-to-earth terms, with the aid of numerous illustrations, including color CFD (Computational Fluid Dynamics) diagrams to demonstrate how aerodynamic devices work, as well as wind-tunnel studies.

Aerodynamics has become an increasingly significant performance enhancer over the past 50 years. Competition Car Aerodynamics 3rd Edition continues the practical, hands-on approach of its popular predecessors to cover all aspects of motorsport aerodynamics and features yet more CFD and wind tunnel project material and case studies. Aerodynamic theory is tackled in a comprehensive yet comprehensible way by author Simon McBeath, who has been granted unprecedented access to state of the art computational fluid dynamics (CFD) techniques, as well as regular access to the MIRA full-scale wind tunnel in the UK. Photographs, graphs, CFD-generated images and wind tunnel data – much of which has appeared in the successful Aerobytes series in Racecar Engineering – are used to explain with unrivalled clarity how aerodynamic performance benefits are obtained in practice. With case studies from Formula 1, sports prototypes, Formula 3, GT and saloon cars, club single seaters and karts, this book will appeal to anyone, whether a designer, competitor, student or armchair enthusiast, wishing to gain an understanding of aerodynamics and how it can benefit the performance of all types of competition cars.

The first book to summarize the secrets of the rapidly developing field of high-speed vehicle design. From F1 to Indy Car, Drag and Sedan racing, this book provides clear explanations for engineers who want to improve their design skills and enthusiasts who simply want to understand how their favorite race cars go fast. Explains how aerodynamics win races, why downforce is more important than streamlining and drag reduction, designing wings and venturis, plus wind tunnel designs and more.

Composites have been around since ancient civilisations began making bricks from clay and straw. Glass fibre, carbon fibre and aramid fibres - to name but three - are recent innovations, yet today there are few competition cars that don't have at least some components made out of one or more of these materials. However, while it is well known that glass fibre technology can be used in the home workshop, what may not be so widely realised is that more advanced fibres also lend themselves to DIY methods. This revised edition of Competition Car Composites starts by examining the materials and methods that can be used, explaining basic 'wet' and 'dry' laminating techniques, pattern making and mould construction, and the design and manufacture of components. It then goes on to cover material and technology upgrades, and how more advanced materials can be exploited to achieve improved properties and reduced weight. The use of thermoplastic materials, resin infusion methods, and, especially, 'pre-pregs' in the home workshop, are also discussed, as are the composite techniques used by top racecar constructors.

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 reduce drag, more than ten different areas are covered. Reducing frontal area, lowering cooling system drag, optimizing vehicle ride height and rake, reducing the strength of the wake, achieving clean airflow separation and optimizing wheel designs are all covered using the latest research findings. And if you're a performance driver, there's a major chapter devoted to reducing lift and improving stability. This chapter includes the design and development of undertrays and diffusers, wings and spoilers. The example car developed measurable downforce when fitted with an undertray and rear diffuser, something that transformed its on-road handling. The author has been writing about the aerodynamics of road cars for more than 25 years. He is also an experienced and proficient car modifier who has performed numerous aerodynamic modifications and upgrades to his own cars. The book's technical consultant, RH Barnard, is an acknowledged world leading automotive aerodynamicist. If you want a practical, hands-on guide that demystifies and explains car aerodynamics, and shows you how to make effective aerodynamic modifications to your car, this book is for you.

For professional teams in all forms of motorsport, data logging has become an essential tool in the search to maximize performance from engine, chassis and driver. Data logging equipment is now accessible to amateur drivers and constructors, and is a very cost-effective way of improving performance. Fully updated to include recent developments, this is a readable, well-illustrated guide to all aspects of data logging, explaining how to design and install a system, and how to interpret the data obtained and use it to analyze performance. The book will also appeal to armchair enthusiasts.

Based on the principles of engineering science, physics and mathematics, but assuming only an elementary understanding of these, Race Car Design masterfully explains the theory and practice of the subject. Bringing together key topics, including the chassis frame, tyres, suspension, steering and brakes, this is the first text to cover all the essential elements of race car design in one student-friendly textbook. Race Car Design: - Features a wealth of illustrations, including a full-colour plate section - Demonstrates the important role of computer tools - Uses dozens of clear examples and calculations to illustrate both theory and practical applications - Is written by an experienced author, known for his engaging and accessible style This book is an ideal accompaniment for motorsport engineering students and is the best possible resource for those involved in Formula Student/FSAE. It is also a valuable guide for practising car designers and enthusiasts.

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