

Compeion Car Aerodynamics By Simon Mcbeath

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Compeion Car Aerodynamics By Simon

In 2019, amid fervent competition between Koenigsegg ... So, we're updating our list of the fastest cars in the world and expanding it to show more wheeled lightning. (Three quick editor's notes: our ...

The 25 Fastest Production Cars in the World Right Now

Start-up Page Roberts has unveiled a patented design concept for an electric vehicle that's capable of travelling up to 30% further than current EVs. By Neil Tyler. Most electri ...

New EV design concept

There is more to developing a hypersonic aircraft than sticking a new engine in an old airframe. Here's What You Need to Remember: With 80 percent of Western fighters expected to be fourth-generation ...

Faster Than Sound: How the F-35 Can Be Made Hypersonic

Free from traditional gas engines, EV designers are rethinking the shape of cars. We take a detailed look at the shape of things to come.

Why Do Electric Cars Look The Way They Do? Because They Can

The initial supply of 40 upgrade kits for the Tatuus IP-22 Indy Pro 2000 and USF-22 USF2000 cars have sold out and will be shipped through August and September.

2022-upgraded Indy Pro 2000, USF2000 cars ready for shipment

Deployed for the first time in a production car, Uni-Q can reproduce the entire mid and high frequency sound spectrum from a single point in space, delivering a more coherent, hyper-realistic sound ...

KEF Delivers First Car Audio System with Uni-Q® Driver Array in Partnership with Group Lotus

The initial supply of 40 upgrade kits slated for shipping in August and September have sold out as teams on the Road to Indy Presented by Cooper Tires prepare for significant chassis enhancements ...

Halo among chassis enhancements set for Indy Pro 2000, USF2000

Driving the No. 5 Franklin Road Apparel Chevrolet Camaro for a first full season, the 2020 XGT Champion' haul of 106 Championship points is a credit both to the driver and the team behind the car. Ken ...

Franklin Road in Top Five Aiming to Tip the Pace at Brainerd International Raceway

And while we look forward to the day when we can write about a new EV without dwelling on its range, many new models still can't clear 200 miles on the highway. To make sense of this transition period ...

2021 Car and Driver EV of the Year: The Contenders

As we continue to sort out the COVID Vaxed from the Unvaxed, while also keeping a wary eye on the Variants (viral and human), ...

Live-In Person Theater is Back in Cleveland: Here's What's Happening Through January on Local Stages

Daimler, BMW, Volkswagen, Audi and Porsche colluded to avoid using technology's full potential, Vestager says.

EU fines German car cartel €875M over clean emissions technology

When the contestants auditioning for week seven of America's Got Talent took the stage on Tuesday night, there was no hope of being conferred a Golden Buzzer and moving directly to the Live Shows.

Watch Roy Singleton Make His Career-Free Wife Cry and Get Four Yesses from the Judges on America's Got Talent Last Night

The new Lotus Evija is a two-seater, mid-engine shrink-wrapped little sports car with design inspiration from the flagship Evija electric hypercar ...

Introducing The Lotus Evija: The Evija-Inspired Small Sports Car

A dramatic police chase that led to the arrest and conviction of two drug dealers has been caught on video. They were caught with 5kgs of cocaine after they sped past a police car in their £ ...

Dash cam shows drug dealers in £100k BMW in 100mph police chase on M6 and busy streets

Auckland businessman Simon Greenwood has claimed to be a "very careful and experienced" motorcyclist who had ridden the state highway where he crashed into a car at least eight to ten times.

Simon Greenwood claims to be 'very careful and experienced' motorcyclist in trial following partner Nikki Gapes' death

Simon Greenwood with partner Nikki Gapes were ... The motorcyclist had been overtaking cars on his Kawasaki ZX with Gapes, 43, in pillion on a fine afternoon of Auckland Anniversary Day in 2018.

Simon Greenwood told officers car 'suddenly appeared' before Nikki Gapes killed, court hears

The Government's Clean Car Discount will apply to new electric ... Electric vehicles expert Simon Coates told Kate Hawkesby says everyone, including tradies and farmers, will be able to make ...

Everyone will eventually benefit from Clean Car Discount, says EV expert

Simon Innes had been with his daughter off Fosse Road listening to the radio when he heard a loud bang and a car horn which went on continuously. He drove up the lane in his Land Rover and turned ...

Driver had been travelling at speeds of up to 104mph before fatal crash on A46

5 – Alvaro Morata has scored his fifth goal at the European Championships, becoming Spain's joint-highest scorer in the competition along ... have been floored. Unai Simon came up big to deny ...

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 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 à?? much of which has appeared in the successful Aerobytes series in Racecar Engineering à?? 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.

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.

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.

This unique handbook 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 visualise 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, optimising vehicle ride height and rake, reducing the strength of the wake, achieving clean airflow separation and optimising wheel designs – they're 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.

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.

This book offers a comprehensive look at an industry that plays a growing role in motor vehicle production in the United States.

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