

## Competition Car Aerodynamics A Practical Handbook

*First published in 1972, this book tells the story of how, between 1957 and 1970, Chevrolet gained vast technical knowledge and made numerous advances in the design of high-performance vehicles while never building a complete, race-ready car. It begins the story in 1953, the year the Corvette was in*

*'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. Only book to cover the broad range of topics for automobile design and analysis procedures Each topic written by an expert with many years experience of the automotive industry*

*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.*

*Dialogue between one of the world's most experienced racing car designers and a technical author-graduate engineer on the theory and technique of racing car design and development. Contents include: The anatomy of a racing car designer; biography of Len Terry; description of nearly 30 Terry designs from clubman's sports car to Indianapolis winner; a blank sheet of paper; handling characteristics; the theoretical aspects; oversteer and understeer; practical implications; structural considerations; space-frames and monocoques; the cockpit area; the structural engine; progress and legislation; suspension; changing needs and layouts; the torsion bar; self-levelling systems; anti-dive and anti-squat; progressive-rate springing; stiffness/weight ratio; brakes, wheels and tires; influence of smaller wheels; twin-disc brake systems; attention to details; low-profile tire phenomena; aerodynamics; wings and things; intake ram effect; ground effect vehicles; the cooling system; radiator location; cooling the oil; safety and comfort; primary and secondary safety; driver comfort; materials; components-ball joints, batteries, brakes, clutches, dampers, drive-shafts, electrics, flexible bearings, flexible fuel cells, gearshift linkages, instruments, non-return valves, non-spill fuel fillers, oil and fuel pipes, Perspex mouldings, radiators, springs and steering gear; design versus development; the competition-nine other racing car designers discussed; future developments.*

*How to Make Your Car Handle*

*Race Car Engineering and Mechanics*

*Chassis Design, Building & Tuning for High Performance Cars*

*From Fluid Mechanics to Vehicle Engineering*

*The Race Car Chassis HP1540*

*Aerodynamics of V/STOL Flight*

*Performance Vehicle Dynamics: Engineering and Applications offers an accessible treatment of the complex material needed to achieve level seven learning outcomes in the field. Users will gain a complete, structured understanding that enables the preparation of useful models for characterization and optimization of performance using the same Automotive or Motorsport industry techniques and approaches. As the approach to vehicle dynamics has changed over time, largely due to advances in computing power, the subject has, in practice, always been computer intensive, but this use has changed, with modeling of relatively complex vehicle dynamics topics now even possible on a PC. Explains how to numerically and computationally model vehicle dynamics Features the use of cost functions with multi-body models Learn how to produce mathematical models that offer excellent performance prediction*

*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.*

*Covers the development and tuning of race car by clearly explaining the basic principles of vehicle dynamics and relating these principles to the input and control functions of the racing driver. An exceptional book written by a true professional.*

*From selecting shifting points to load transfer in car control and beyond, Fast Car Physics is the ideal source to consult before buckling up and cinching down the belts on your racing harness.*

*Chevrolet–racing?*

*Modifying the Aerodynamics of Your Road Car*

*Competition Car Electrics*

*A Practical Handbook, 2nd Edition*

*Competition Car Composites*

*Race and Rally Car Source Book*

**Racecar data acquisition used to be limited to well-funded teams in high-profile championships. Today the cost of electronics has decreased dramatically making them available to everyone. But the cost of any data acquisition system is a waste of money if the recorded data is not interpreted correctly. This book updated from the best-selling 2008 edition contains techniques for analyzing data recorded by any vehicle's data acquisition system. It details how to measure the performance of the vehicle and driver what can be learned from it and how this information can be used to advantage next time the vehicle hits the track. Such information is invaluable to racing engineers and managers race teams and racing data analysts in all motorsports. Whether measuring the performance of a Formula One racecar or that of a road-legal street car on the local drag strip the dynamics of vehicles and their drivers remain the same. Identical analysis techniques apply. Some race series have restricted data logging to decrease the teama's running budgets. In these cases it is extremely important that a maximum of information is extracted and interpreted from the hardware at hand.A team that uses data more efficiently will have an edge over the competition. However the ever-decreasing cost of electronics makes advanced sensors and logging capabilities more accessible for everybody. With this comes the risk of information overload. Techniques are needed to help draw the right conclusions quickly from very large data sets. In addition to updates throughout this new edition contains three new chapters: one on techniques for analyzing tire performance one that provides an introduction to metric-driven analysis a technique that is used throughout the book and another that explains what kind of information the data contains about the track.**

**Automotive technology.**

**A thorough guide to the DIY building and modifying of a car for racing or rallying. Describes champion circuit, rally and hill-climb cars from Formula 750 to Formula 1. If you are a serious competitor in either race, rally or hill climbing this is an excellent addition to the tool box. The guide is simple, easy to follow and it is a must for any club.**

**The design and development of competition car suspension systems is a vital ingredient for winning performance. In this updated title, an acknowledged expert on the subject explains in layperson's terms the theory and practice of successful suspension engineering. Recent rules changes and technological developments are incorporated into the new text, which is fully illustrated with specially prepared diagrams and close-up views of suspenson components. Appendices include information on spherical joints and supporting math. Also includes a glossary of terms. Copyright © Libri GmbH. All rights reserved.**

**The International Vehicle Aerodynamics Conference**

**A Practical Guide to Race Car Data Analysis**

**An Introduction to Modern Vehicle Design**

**Automotive Aerodynamics**

**BREADVAN**

**Race Car Aerodynamics**

The automobile is an icon of modern technology because it includes most aspects of modern engineering, and it offers an exciting approach to engineering education. Of course there are many existing books

on introductory fluid/aero dynamics but the majority of these are too long, focussed on aerospace and don't adequately cover the basics. Therefore, there is room and a need for a concise, introductory textbook in this area. Automotive Aerodynamics fulfils this need and is an introductory textbook intended as a first course in the complex field of aero/fluid mechanics for engineering students. It introduces basic concepts and fluid properties, and covers fluid dynamic equations. Examples of automotive aerodynamics are included and the principles of computational fluid dynamics are introduced. This text also includes topics such as aeroacoustics and heat transfer which are important to engineering students and are closely related to the main topic of aero/fluid mechanics. This textbook contains complex mathematics, which not only serve as the foundation for future studies but also provide a road map for the present text. As the chapters evolve, focus is placed on more applicable examples, which can be solved in class using elementary algebra. The approach taken is designed to make the mathematics more approachable and easier to understand. Key features: Concise textbook which provides an introduction to fluid mechanics and aerodynamics, with automotive applications Written by a leading author in the field who has experience working with motor sports teams in industry Explains basic concepts and equations before progressing to cover more advanced topics Covers internal and external flows for automotive applications Covers emerging areas of aeroacoustics and heat transfer Automotive Aerodynamics is a must-have textbook for undergraduate and graduate students in automotive and mechanical engineering, and is also a concise reference for engineers in industry.

Much-needed fourth edition of strong backlist book first published in 1988 and continuously in print ever since. Reformatted to latest 'Competition Car' style and size. Now full color throughout. Most

pictures new for this edition.

In most forms of racing, cornering speed is the key to winning. On the street, precise and predictable handling is the key to high performance driving. However, the art and science of engineering a chassis can be difficult to comprehend, let alone apply. Chassis Engineering explains the complex principles of suspension geometry and chassis design in terms the novice can easily understand and apply to any project. Hundreds of photos and illustrations illustrate what it takes to design, build, and tune the ultimate chassis for maximum cornering power on and off the track.

To make your car handle, design a suspension system, or just learn about chassis, you'll find what you need here. Basic suspension theory is thoroughly covered: roll center, roll axis, camber change, bump steer, anti-dive, ride rate, ride balance and more. How to choose, install and modify suspensions and suspension hardware for best handling: springs, sway bars, shock absorbers, bushings, tired and wheels. Regardless of the basic layout of your car—front engine/rear drive, front engine/front drive, or rear engine/rear drive—it is covered here. Aerodynamic hardware and body modifications for reduced drag, high-speed stability and increased cornering power: spoilers, air dams, wings and ground-effects devices. How to modify and set up brakes for maximum stopping power and handling. The most complete source of handling information available. "Suspension secrets" explained in plain, understandable language so you can be the expert.

Design, Construction, Tuning

A Practical Handbook (Revised 2nd Edition)

Race Car Design

Engineering Fundamentals: An Introduction to Engineering, SI Edition

How to Build Motorcycle-engined Racing Cars

Pro Methods for Improved Handling, Safety and Performance

Competition Car Aerodynamics 3rd EditionVeloce Publishing Ltd

One of the legends of auto racing shares his secrets for living a good life and achieving business success, applying his winning formula on the racetrack to the fierce competition and high-speed turns of modern life. 75,000 first printing. \$100,000 ad/promo An extremely practical overview of V/STOL (vertical/short takeoff and landing) aerodynamics, this volume offers a presentation of general theoretical and applied aerodynamic principles, covering propeller and helicopter rotor theory for both the static and forward flight cases. Both a text for students and a reference for professionals, the book can be used for advanced undergraduate or graduate courses. Numerous detailed figures, plus exercises. 1967 edition. Preface. Appendix. Index.

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.

Racing Car Design and Development

Design, Structures and Materials for Road, Drag and Circle Track Open- and Closed-Wheel Chassis

The Science Behind the Speed

A Practical Handbook, Fourth Edition

Engineering and Applications

Le Corbusier and the Automobile

*Based on the principles of engineering science, physics and mathematics, but assuming only an elementary understanding of these, this textbook masterfully explains the theory and practice of the subject. Bringing together key topics, including the chassis frame, suspension, steering, tyres, brakes, transmission, lubrication and fuel systems, this is the first text to cover all the essential elements of race car design in one student-friendly textbook. It avoids the pitfalls of being either too theoretical and mathematical, or else resorting to approximations without explanation of the underlying theory. Where relevant, emphasis is placed on the important role that computer tools play in the modern design process. This book is intended 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 constructors, and enthusiasts.*

*A comprehensive guide on how to tune, test, and win in any form of racing. Includes technical information on all areas of race car engineering, including suspension and chassis, springs, brakes, aerodynamics, engine systems, safety, driving, testing, computers in racing, and a special section on race cars of the future.*

*Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

*The requirements for a competition car electrical system are significantly different from those of a standard road car. Such luxuries as electric windows and central locking are superfluous. Conversely, equipment such as emergency electrical cut-outs and fire extinguisher systems may be required. Electrical system reliability is an often-overlooked aspect of competition car design, and a common source of trouble. Here is a practical, illustrated guide to all aspects of electrical system design and implementation, essential reading for anyone running or constructing a competition car or modifying a road car for competition use.*

*Voiture Minimum*

*Fourteen Years of Raucous Silence!, 1957-1970*

*Designing for Speed*

*Racing Chassis and Suspension Design*

*How to Build a Car: The Autobiography of the World's Greatest Formula 1 Designer*

'Adrian has a unique gift for understanding drivers and racing cars. He is ultra competitive but never forgets to have fun. An immensely likeable man.' Damon Hill

This set includes Race Car Vehicle Dynamics, and Race Car Vehicle Dynamics - Problems, Answers and Experiments. Written for the engineer as well as the race car enthusiast, Race Car Vehicle Dynamics includes much information that is not available in any other vehicle dynamics text. Truly comprehensive in its coverage of the fundamental concepts of vehicle dynamics and their application in a racing environment, this book has become the definitive reference on this topic. Although the primary focus is on the race car, the engineering fundamentals detailed are also applicable to passenger car design and engineering. Authors Bill and Doug Milliken have developed many of the original vehicle dynamics theories and principles covered in this book, including the Moment Method, "g-g" Diagram, pair analysis, lap time simulation, and tyre data normalization. The book also includes contributions from other experts in the field. Chapters cover: \*The Problem Imposed by Racing \*Tire Behavior \*Aerodynamic Fundamentals \*Vehicle Axis Systems and more. Written for the engineer as well as the race car enthusiast and students, the companion workbook to the original classic book, Race Car Vehicle Dynamics, includes: \*Detailed worked solutions to all of the problems \*Problems for every chapter in Race Car Vehicle

Dynamics, including many new problems \*The Race Car Vehicle Dynamics Program Suite (for Windows) with accompanying exercises \*Experiments to try with your own vehicle \*Educational appendix with additional references and course outlines \*Over 90 figures and graphs This workbook is widely used as a college textbook and has been an SAE International best seller since its introduction in 1995.

A physicist explores the science of speed racing and the #1 spectator sport in America in the perfect gift for both NASCAR and science fans. Every NASCAR fan—at one time or another—asks the same question: Why isn't my favorite driver winning? This is your chance to discover how much more there is to NASCAR than "Go fast, turn left and don't crash." If you've ever wondered why racecars don't have mufflers, how "bump drafting" works, or what in the world "Let's go up a pound on the right rear and add half a round of wedge" means, The Physics of NASCAR is for you. In this fast-paced investigation into the adrenaline-pumping world of NASCAR, a physicist with a passion uncovers what happens when the rubber hits the road and 800-horsepower vehicles compete at 190 miles per hour only inches from one another. Diandra Leslie-Pelecky tells her story in terms anyone who drives a car—and maybe occasionally looks under the hood--can understand. How do drivers walk away from serious crashes? How can two cars travel faster together than either car can on its own? How do you dress for a 1800°F gasoline fire? In simple yet detailed, high-octane prose, this is the ultimate thrill ride for armchair speed demons, auto science buffs, and NASCAR fans at every level of interest. Readers, start your engines.

Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

Competition Car Aerodynamics

Analysis Techniques for Racecar Data Acquisition

Performance Vehicle Dynamics

Assessment of Fuel Economy Technologies for Light-Duty Vehicles

Race Car Vehicle Dynamics Set

Tune to Win

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.

A story of the stock car racing circuit offers a behind-the-scenes tour of the sport.

This invaluable handbook on the structural design and science behind the race car chassis includes sections on materials and structures, structural loads, a brief overview of suspension and chassis design, multi-tube and space frame chassis, joining ferrous metals, stressed skin construction, and joining light alloys.

Built as a Ferrari 250 GT Short Wheelbase Competizione, chassis number 2819 GT has become famous as the instantly recognisable 'Breadvan' - a fan favourite around the world. This latest book from Porter Press tells its full story, from being delivered new to sports car ace Olivier Gendebien and its 1962 conversion into the Breadvan by Count Giovanni Volpi di Misurata, to its recent appearances at Goodwood and Le Mans.

A FERRARI TO BEAT THE GTO

Fast Car Physics

A Practical Handbook

The Guide to Building Or Modifying a Competition Car

Rolling Thunder Stock Car Racing: First To The Flag

Tuning for Speed

*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.*

*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.*

*"Le Corbusier, who famously called a house 'a machine for living,' was fascinated--even obsessed--by another kind of machine, the automobile. His writings were strewn with references to autos ... In his 'white phase' of the twenties and thirties, he insisted that his buildings be photographed with a modern automobile in the foreground. Le Corbusier moved beyond the theoretical in 1936, entering (with his cousin Pierre Jeanneret) an automobile design competition, submitting plans for 'a minimalist vehicle for maximum functionality,' the Voiture Minimum.*

*Despite Le Corbusier's energetic promotion of his design to several important automakers, the Voiture Minimum was never mass-produced. This book is the first to tell the full and true story of Le Corbusier's adventure in automobile design. Architect Antonio Amado describes the project in detail, linking it to Le Corbusier's architectural work, to Modernist utopian urban visions, and to the automobile design projects of other architects including Walter Gropius and Frank Lloyd Wright. The story is supported by many images and documents, including architects' favorite cars, sketches and models of the Voiture Minimum, and copies of Le Corbusier's correspondence with prospective manufacturers."--Jacket.*

*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.*

Aerodynamics of Road Vehicles

The Physics of Nascar

Competition Car Aerodynamics 3rd Edition

Winners are Driven

Competition Car Suspension

Chassis Engineering

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.

294 pages, 130 black & white illustrations, size 5.5 x 8.5 inches. In 1963, Temple Press UK published a revised and expanded 4th UK edition of 'Tuning for Speed' and, in 1965, they published a reprint of that 1963 edition. Both the 1963 and the 1965 publications are identical in content and contain 294 pages, a significant increase from the previous 208 page 1960 printing. With a total of 294 pages, the revised and expanded 4th UK edition is the most comprehensive of all of the 'Tuning for Speed' editions ever published. Earlier editions only stretched to 208 pages and later editions shrunk to 260 pages (or less) as what was thought to be 'dated information' was deleted from the contents. This 'dated information' is considered valuable today by those enthusiasts interested in vintage motorcycle tuning and modification. Consequently, this makes the revised 4th UK publication the most complete and desirable edition. Therefore, it is our pleasure to offer this reprint of the Floyd Clymer 'Revised 4th UK Edition or Second American Edition of 'Tuning for Speed' to motorcycle enthusiasts worldwide. 'Tuning for Speed' was originally published in 1948 and continuously reprinted and updated in order to keep pace with the constantly evolving range of British motorcycles and engines. While the primary focus of this publication is on 1965 and prior British motorcycles, the theory and engineering it contains is still applicable to the current crop of high revving imports. 'Tuning for Speed' is considered by many knowledgeable motorcycle enthusiasts to be one of the best books ever written on how to improve, modify and fine tune a motorcycle engine and it is often referred to as one of the 'top 10' classic motorcycle books. The Floyd Clymer association with this publication dates back to the early 1960's when he purchased the United States Publishing rights for 'Tuning for Speed' from Temple Press in the UK and, in 1967, Clymer published the 1st American edition of that title. However, by 1967, the Clymer publication had been preceded by 8 printings of the UK edition and was incorrectly identified by Clymer as a 9th edition. In fact, the 1967 Clymer publication is actually a reprint of the less desirable 208 page 1960 UK edition. However, in 1963, the 4th UK edition was revised and expanded to 294 pages (with a second identical re-print in 1965). Therefore, this 2nd American edition of the Floyd Clymer publication of 'Tuning for Speed' includes all of that valuable 'dated information' that was deleted from the later editions and is identical in all respects to the 294 page 1963/1965 revised and expanded 4th UK edition - with the exception that 7 pages of UK-based advertising to the rear of the book are not included in the Clymer publication.

A Practical Guide to Race Car Data Analysis was written for the amateur and lower-level professional racers who either have a data system in their cars or who may be thinking about installing one but who do not have access to an experienced data engineer. Using real track data, numerous real-world examples, and more than 200 illustrations, the Guide gives racers the knowledge and skills they need to select, configure and use their data systems efficiently and effectively.

A Champion's Guide to Success in Business and Life

Competition Car Aerodynamics, New 3rd Edition