

Go Kart Chassis Engineering

The all-color practical Build Your Own Sports Car provides all the information needed to build a road-going two-seater, open-top sports car on a budget, using standard tools, basic skills and low-cost materials. The down-to-earth text clearly explains each step along the road to producing a well-engineered, high-performance sports car, providing a learning experience in engineering and design - and opening up a whole new world of fun motoring. The Haynes Roadster, which has fully independent rear suspension, has been designed with the aid of CAD software to develop the chassis and suspension, resulting in a car with performance and handling to challenge many established kit cars and mainstream sports cars. The

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design is intended to make use of components sourced primarily from a Ford Sierra donor, although alternative donors are mentioned.

At the end of the Fifties, a number of craftsmen began to build chassis, attempting to reproduce the karts that were arriving from the United States. That was what set Umberto Sala, whose nickname is Birel, on the road to lasting success. After just a few years, Sala's karts stood out for their technical content and personality and they have become so successful that in the 40 years since the Birel company was formed, its karts have won 25 world championships and numerous European and national titles. Drivers destined for brilliant motor racing careers won with chassis built at Birel's headquarters at Lissone. Men like Riccardo Patrese, Keke Rosberg, Stefano Modena, Emanuele Pirro, and current stars of

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Formula One, like Mika Hakkinen and Juan Pablo Montoya. 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.

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). The book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics, finite element modeling, computer aided engineering and analysis, fracture mechanics, and vibration. The book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field.

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Stock Car Setup Secrets

Getting Started in Competitive Go Kart Racing

Tune to Win

Transdisciplinary Engineering for Resilience: Responding to System Disruptions

16th Australian Conference on AI, Perth, Australia, December 3-5, 2003, Proceedings

Going Faster!

Applications of Artificial Intelligence Techniques in Engineering
Now you can have the chassis and suspension technology that is winning races right now. The information in this book is currently being used by top teams in Touring Late Models, All Modified Divisions, Stock Clip

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Late Models, Mini Cars, Road Racing Sedans and all other types of stock cars to setup their cars for asphalt and dirt track racing. Stock Car Setup Secrets takes the "guesswork" out of chassis setup. Chassis expert Bob Bolles, offers detailed information on all aspects of racing chassis engineering. Book jacket.

Now that people are starting to see that karting is the perfect training ground for professional racers of all stripes—as well as a not-so-expensive alternative to full-scale road racing and oval track racing—it's become the fastest-growing motorsport in the U.S.

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and the world. For the novice confronted with a bewildering array of choices—kart types and classes, road racing, sprint track racing, oval racing—this book offers answers. The best single resource on kart racing, *Karting* will teach you the ins and outs of the sport, from choosing a class and kart to selecting safety equipment to performing maintenance and mastering racing techniques that will get you up to speed on the track.

The 31st volume of the journal "Advanced Engineering Forum" contains peer-reviewed manuscripts describing the results of engineering solutions and research dealing

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with actual problems in the area of strength of materials and structures, building materials, architecture, determination of optimal parameters for the technology of equal channel angular pressing and modeling for the multiple-criteria decision making in manufacturing environment. Published articles will be useful for professionals in the various branches of engineering and for students and academic staff concerned with the related specialties.

A comprehensive guide on how to tune, test, and win in any form of racing. Includes technical information on all areas of race

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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.

The Complete Guide to High-Performance and Race Driving

Advanced Race Car Chassis Technology

Advances in Mechanical Engineering and Technology

Select Proceedings of ICAST 2020

International Conference on Manufacturing Automation

Race Car Engineering and Mechanics

Chevrolet-racing?

The book is a collection of high-quality, peer-reviewed innovative research papers from the International Conference on Signals, Machines and Automation (SIGMA 2018) held at Netaji Subhas Institute of Technology (NSIT), Delhi, India. The conference offered researchers from academic and industry the opportunity to present their original work and exchange ideas, information, techniques and applications in the field of computational intelligence, artificial intelligence and machine intelligence. The book is divided into two volumes discussing a wide variety of industrial, engineering and scientific applications of the emerging techniques.

Automotive technology.

A complete guide to a better handling kart.

This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMMP) 2019. The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive, bio-manufacturing, chemicals, electronics, energy, construction materials, and other engineering applications. The contents focus on cutting-edge instruments, methods and standards in the field of metrology and mechanical properties of advanced materials. Given the scope of the topics, this book can be useful for students,

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researchers and professionals interested in the measurement of surfaces, and the applications thereof.

Advances in Metrology and Measurement of Engineering Surfaces

The Race Car Chassis HP1540

Fourteen Years of Raucous Silence!, 1957-1970

Race Car Vehicle Dynamics Set

Recent Trends in Engineering Design

Recent Trends in Industrial and Production Engineering

Step-by-step illus. guide to building a single-seater off-road buggy using standard tools, basic skills and low-cost materials.

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Design and Fabrication of Go-kart Chassis

This book constitutes the refereed proceedings of the 16th Australian Conference on Artificial Intelligence, AI 2003, held in Perth, Australia in December 2003. The 87 revised full papers presented together with 4 keynote papers were carefully reviewed and selected from 179 submissions. The papers are organized in topical sections on ontologies, problem solving, knowledge discovery and data mining, expert systems, neural network applications, belief revision and theorem proving, reasoning and logic, machine learning, AI applications, neural computing, intelligent agents, computer vision, medical applications, machine learning and language, AI and business, soft computing, language understanding, and theory.

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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.

Chassis Engineering

The Art and Science

Chassis Fabrication, Front & Rear Suspension, Steering & Rear Axle, Shocks, Springs & Brakes, Ladder Bars, Four Links & Bolt-On Bar Setups

Autocar

Science and Management of Automotive and Transportation Engineering

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Birel 40 years of kart technology and history

Motorcycle Handling and Chassis Design

A guide to setting up your car for maximum handling performance on the street or strip. This instructional handbook shows readers how to set up their street machine chassis for high performance street or amateur drag strip racing. Not only are chassis and suspension the most popular types of modification, but their technology is constantly evolving. It offers the latest techniques for maximizing car performance on streets and strips. This definitive guide includes in-depth sections on chassis fabrication, rear axle

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selection and setup, rear and front suspension, shocks and springs, brakes, steering, and wheels and tires.

The proceedings of the fourth ICMA in 2004 represent a huge contribution to research in this area. Everyone attending the conference was asked to submit their papers electronically which meant that 100 top quality papers from no less than 10 different countries contributed to the theme of the conference.

This book presents select proceedings of the International Conference on Advances in

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Sustainable Technologies (ICAST 2020), organized by Lovely Professional University, Punjab, India. The topics covered include computer aided design (CAD), computer assisted manufacturing (CAM), computer integrated manufacturing (CIM), computer aided engineering (CAE) and product design, dynamics of control structures and systems, solid mechanics: differential and dynamical systems, modelling and simulation. The book also discusses various modern age design tools including finite element analysis, modelling, analysis and simulation of manufacturing processes, process design,

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automation, mechatronics, robotics and assembly, etc. The book will be useful for beginners, researchers, and professionals interested in the field of sustainable design practices.

This book presents the select proceedings of the International Conference on Advances in Sustainable Technologies (ICAST 2020), organized by Lovely Professional University, Punjab, India.

This book caters to the industrial and production engineering aspects. It covers the industrial and production engineering areas such as sustainable manufacturing systems, decision sciences, supply

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chain management, Just in Time (JIT), logistics and supply chain management, rapid prototyping and reverse engineering, quality control and reliability, six sigma, smart manufacturing, time and motion study, six sigma, ergonomics, operations management, manufacturing management, metrology, manufacturing process optimization, machining and machine tools, casting, welding, and forming. This book will be useful for industry professionals and researchers working in the area of mechanical engineering, especially industrial and production engineering.

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The 30th SIAR International Congress of Automotive and Transport Engineering

AI 2003: Advances in Artificial Intelligence

Computer Aided Optimum Design in Engineering X

Go-Kart Racing/Chassis Setup

Mastering the Art of Race Driving

How to Build a Winning Drag Race Chassis and Suspension

Ultimate Speed Secrets

Engineering design is enhanced by adding optimisation methods. Their influence cannot be over-emphasised. The resulting solutions provide an efficient way of dealing with

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some of the most difficult challenges in engineering practice today. Containing papers presented at the Tenth International Conference on this successful series on Optimum Design in Engineering, this book examines the recent development in advanced types of structures, particularly those based on new concepts and new types of materials resulting in optimum solutions. Particular emphasis is placed on computational methods to model, control and manage new structural solutions and material types. Featured topics include: Optimisation and Manufacturing; Structural Optimisation; Optimisation in Biomechanics; Shape and Topology Optimisation; Industrial examples of Design Optimisation; Fluid Structure Interaction; Damage and Fracture Mechanics; Composite Materials Optimisation;

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Optimum behavior of Fiber Reinforced Polymers; Aerospace Structures; Applications in Mechanical and car engineering; New Algorithms.

Performance and racing drivers constantly seek ways to sharpen their skills and lower their lap times. Ultimate Speed Secrets is the indispensable tool to help make you faster, whatever your driving goals. Professional race driver and coach Ross Bentley has raced everything from Indycars to World Sports Cars to production sedans, on ovals, road courses, and street circuits around the world. His proven high-performance driving techniques benefit novice drivers as well as professional racers. Ultimate Speed Secrets covers everything you need to know to maximize your potential and your car: Choosing the correct line Overtaking maneuvers

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Adapting to new tracks and cars The mental game and dealing with adversity Finding (and keeping) a sponsor. The pages are filled with specially commissioned color diagrams to illustrate the concepts described. Whether you are a track-day novice or a seasoned professional, Ultimate Speed Secrets will arm you with practical information to lower your lap times and help you get the best out of your vehicle—and yourself. It's the ultimate high-performance driving tutorial! The sport of competitive kart racing is considered by many to be the most fundamental and exciting branch of motorsports available worldwide. Performance karts are lightweight, agile, and provide the thrill of racing competition at an accessible level for thousands of participants across the globe each year. Written by national and regional karting champion Eric

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Gunderson, "Karting 101" serves to educate the complete new-comer about the sport, and provides them the information necessary to begin their first foray into karting. From the basics of kart chassis dynamics to karting safety gear, "Karting 101" covers karting in a comprehensive yet accessible format.

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

Racing Chassis and Suspension Design

Chassis Design, Building & Tuning for High Performance

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Cars

Karting 101

How to Build Motorcycle-engined Racing Cars

Advanced Engineering Forum Volume 31

Advanced Engineering Forum

On a Budget

This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for

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the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning,

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Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students

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and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors. This thesis deals with the design and fabrication of go-kart chassis. The objective of this thesis is to design and fabricate a go-kart chassis of an electric go kart. The main problem is the cost for current go-kart chassis is too expensive so the project is decide to fabricate with a lower cost. The scopes identified chassis design should bear load of 150kg and the go-kart chassis must with floor dimension of chassis is 1400mmx830mm. There are many steps taken to design and fabricate this chassis.

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The first stage is did some literature review about the existing go-kart and go-kart chassis. Mostly current model of go-kart chassis is made from tubular pipe. Hence, this project is to modify the current model of go-kart chassis into a model that is easier to design, build and modify. Follow up with some designing and sketching. During this phase, three designs had been sketch to be as the design concepts. The structural three-dimensional solid modelling of go-kart chassis was developed by using Solid Works engineering drawing software. As for each design have their advantages and disadvantages. After done with design and

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sketch, conceptual process is done and design 3 has been chosen because this design is more advantageous than other two designs. Design 3 is lightweight and easier to design, build and modify. Some modification is done on design 3 where, the go-kart chassis is more space saving and the design has provided protection to the users to prevent the user from fall during drive the go-kart. Next stage after finalize the design, the project is continued with fabrication process. The fabrication process also undergoes many steps such as material marking, cutting, drilling, welding, grinding and finalizing the go-kart chassis by painting to

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make a go-kart chassis more interested. Thus, by finishing this project, the objective of the project is achieved. Finally, the conclusion about this project and the recommendations for the future plan also attached together with this thesis.

The 31st volume of the journal "Advanced Engineering Forum" contains peer-reviewed manuscripts describing the results of engineering solutions and research dealing with actual problems in the area of strength of materials and structures, building materials, architecture, determination of optimal parameters for the technology of equal channel angular pressing and modeling for the

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multiple-criteria decision making in manufacturing environment. Published articles will be useful for professionals in the various branches of engineering and for students and academic staff concerned with the related specialties. Internal Friction, Material Fatigue, CAD, Analysis of Structure, Go-kart Chassis, Mortar, Bending Strength of Masonry, Building Facade Materials, Equal Channel Angular Pressing, Plastic Strain, Manufacturing Environment, Multiple-Criteria Decision Making, Fuzzy Logic Materials Science. In most forms of racing, cornering speed is the key to winning. On the street, precise and predictable

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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.

For as Little as £ 100

SIGMA 2018, Volume 1

Advancement in Emerging Technologies and

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Engineering Applications

Advanced Design and Manufacturing in Global
Competition

Kart Chassis Setup Technology

Winning Chassis Design and Setup for Circle Track
and Road Race Cars

Karting

This book comprises selected peer-reviewed proceedings of the International Conference on Advances in Industrial Automation and Smart Manufacturing (ICAIASM) 2019. The contents focus on innovative manufacturing processes,

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standards and technologies used to implement Industry 4.0, and industrial IoT based environment for smart manufacturing. The book particularly emphasizes on emerging industrial concepts like industrial IoT and cyber physical systems, advanced simulation and digital twin, wireless instrumentation, rapid prototyping and tooling, augmented reality, analytics and manufacturing operations management. Given the range of topics covered, this book will be useful for students, researchers as well as industry professionals.

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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

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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

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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

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textbook and has been an SAE International best seller since its introduction in 1995.

This proceedings book includes papers that cover the latest developments in automotive vehicles and environment, advanced transport systems and road traffic, heavy and special vehicles, new materials, manufacturing technologies and logistics and advanced engineering methods. Authors of the papers selected for this book are experts from research, industry and universities, coming from different countries. The overall objectives of the

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presentations are to respond to the major challenges faced by the automotive industry, and to propose potential solutions to problems related to automotive technology, transportation and environment, and road safety. The congress is organized by SIAR (Society of Automotive Engineers from Romania) in cooperation with SAE International. The purpose is to gather members from academia, industry and government and present their possibilities for investigations and research, in order to establish new future collaborations in the automotive

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engineering and transport domain. This proceedings book is just a part of the outcomes of the congress. The results presented in this proceedings book benefit researchers from academia and research institutes, industry specialists, Ph.D. students and students in Automotive and Transport Engineering programs.

This volume contains selected and reviewed manuscripts from the 2nd Regional Conference on Mechanical and Marine Engineering (ReMME 2018), 'Sustainable Through Engineering,'

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which was held from November 7 to 9, 2018, at the Ipoh, Perak, Malaysia. This conference was organized by the Center of Refrigeration and Air Conditioning (CARE) and Center of Marine Engineering (CTME) Politeknik Ungku Omar, Jalan Raja Musa Mahadi, 31400 Ipoh, Perak. It discusses the expertise, skills, and techniques needed for the development of energy and renewable energy system, new materials and biomaterials, and marine technology. It focuses on finite element analysis, computational fluids dynamics, programming and mathematical

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methods that are used for engineering simulations, and present many state-of-the-art applications. For example, modern joining technologies can be used to fabricate new compound or composite materials, even those formed from dissimilar component materials. These composite materials are often exposed to harsh environments, must deliver specific characteristics, and are primarily used in automotive and marine technologies, i.e., ships, amphibious vehicles, docks, offshore structures, and even robots. An energy efficient methods

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such cogeneration, thermal energy storage and solar desalination also being highlighted as sustainable engineering in this book chapter.

The committee members can be listed as follows: Patron: Dr. Hj. Zairon Mustapha (Director). Advisor: Muhammad Zubir Mohd Hanifah (Deputy Director Academic), Dr. Azhar Abdullah (Head of Innovation, Research & Commercialization). Chairman 1: Dr. Adzuieen Nordin. Chairman 2: Hairi Haizri Che Amat. Secretariat 1: Dr. Woo Tze Keong. Secretariat 2: Dr. Saw Chun Lin. Secretary: Mahani Mohd

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Hisham Hussin.

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Advances in Industrial Automation and Smart
Manufacturing

Select Proceedings of ICAIASM 2019

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

Advanced Chassis and Suspension Technology
for Asphalt and Dirt Circle Track Racing

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Proceedings of 6th International Conference on Advanced Production and Industrial Engineering (ICAPIE) - 2021

This complete racer's reference is the perfect resource for all drivers from novice to expert. The fundamentals of fast driving are revealed in this definitive how-to book for racers. You will find the competition-proven methods of instructors and of professional drivers that will give you the know-how to work up the track and stay at the front. Interested in the world of racing? Just think, you can have all of the lessons and insights from Skip

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Barber instructors and from professional racers compiled in one handbook. This racing reference reveals the secrets of mastering car control, reducing lap times, as it takes the reader inside the world of racing. Going Faster! is the definitive book for the active race driver, the racer-to-be, and the auto-racing fan who wants to know what driving a racecar is really about.

Updated with nearly 60 percent new material on the latest racing technology, this book details how to design, build, and setup the chassis and suspension for road race and stock cars. Includes chassis dynamics, spring and shock theory, front

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and rear suspension geometry, real world racing aerodynamics, steering systems, racing chassis software and all you need to know to set you chassis up to win races.

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Everything You Need to Know

Build Your Own Off-road Buggy

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Advances in Engineering Design

Technology Innovation in Mechanical Engineering

Design and Fabrication of Go-kart Chassis