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Autore	Trzesniowski Michael
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Nota di contenuto	Tyres and wheels -- Suspension -- Springs and dampers -- Axle designs -- Steering -- Brake system -- Comparison series-racing -- Glossary.

In this book, the reader learns the essential differences to the passenger car through the analysis divided according to assemblies. This gives him the tools to apply the detailed knowledge he has acquired to the design and development of competition vehicles. The chassis determines the driving behaviour and thus the "DNA" of a racing vehicle like no other assembly. Starting with the tyre - the decisive mechanical component - all the components of the wheel suspension, including steering and braking system, are presented and discussed. The focus is on the double wishbone and suspension strut axles. The design of wheel suspensions starts with kinematic considerations, leads via component design to considerations of the vehicle dynamics. Ultimately, the maximum forces of the tires in the transverse and circumferential directions are to be exploited while keeping the vehicle controllable. Due to the detailed, in-depth presentation, the work is just as suitable for the interested motorsport enthusiast as it is for the engineer in practice who is dealing with questions relating to racing suspensions. The formula material is prepared in such a way that the book can also be used as a reference work. The content Tyres and wheels.- Suspension.- Springs and dampers.- Axle designs.- Steering.- Brake system.- Comparison series-racing.- Glossary. The target group Students participating in Formula Student competitions - Designers, race engineers and private drivers who want to understand and improve their vehicle - Interested laymen who want to gain a deeper understanding of the race car system based on their knowledge of the car. The author FH-Prof. Dipl.-Ing. Michael Trzesniowski has gained over 30 years of practical experience with manufacturers and developers as a design engineer in the automotive sector. He taught at the FH Joanneum in Graz at the study course Vehicle Technology - Automotive Engineering with industrial projects, cooperations and student research projects with racing teams. He is the founder and supervisor of a successful, innovative team in the Formula Student racing series. Currently he works for a racing system supplier. This book is a translation of an original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.

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