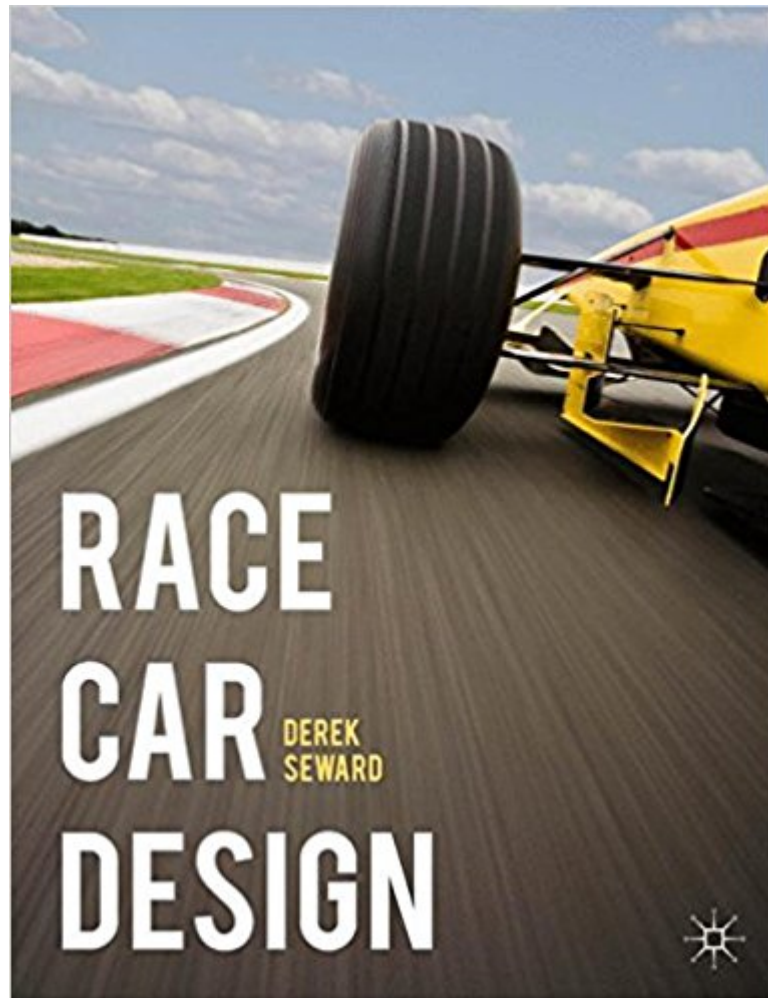




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Race Car Design



Synopsis

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.

Book Information

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Customer Reviews

"The book is extremely useful and will benefit students across all levels. Examples and calculations are very clear and show all the relevant stages, and the book is written in a very user-friendly way." - Steve Hill, Programme Leader for Motorsport Engineering, University of Derby, UK
"This book will be of value to engineering students studying motorsport, undertaking a motorsport design project or participating in Formula Student or Formula SAE. The style of writing is accessible and the book offers a balance between the practical and theoretical aspects of the discipline." - Clive Temple, Programme Director of MSc Advanced Motorsport Engineering, Cranfield University, UK

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"This is a first rate book covering all the basics of a race car design, even the tires. I highly recommend it as the first book you read if you are in engineer with no background in auto design. It would serve well as a textbook for an undergraduate engineering course in race car design." - reviewer - 5 stars

"As a retired member of the SAE and a motor sports engineer I loved this book ...at 73 there's always more to learn from others. I wish this text was used by all physics professors." reviewer - 5 stars

This is a first rate book covering all the basics of a race car design, even the tires. I highly recommend it as the first book you read if you are in engineer with no background in auto design. It would serve well as a textbook for an undergraduate engineering course in race car design. There is no advanced math (like calculus), but a good knowledge of algebra and statics is needed to fully understand parts of the book. the author even talks about standard practices such as normal stress safety factors on suspension components. That being said, a great majority of the book will also be useful for a reader without an engineering/math background. The author gives many insights and pointers that do not require any math to understand.

Lots of math that can be hard to follow if you're not into math. If you don't need to know it and you're just looking for the basics you can just skim past it to get the juicy stuff. I haven't finished the book yet but I like what I've seen so far.

Practical and easy to understand

As a retired member of the SAE and a motor sports engineer I loved this book ...at 73 there's always more to learn from others. I wish this text was used by high all school physics professors.

Well presented! Very insightful and a great bridge between academic and applied methods.

Defective product. Missing pages 59-66.

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