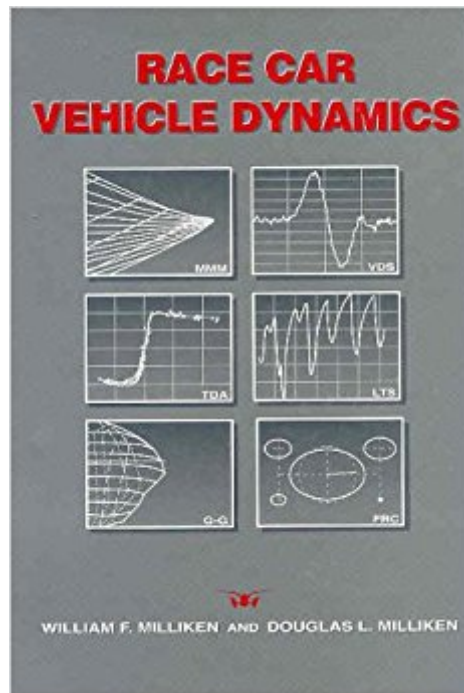


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# Race Car Vehicle Dynamics (Premiere Series)



## Synopsis

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.

## Book Information

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## Customer Reviews

We offer no apologies for making this important... book our choice for the second time around. Widely welcomed, its content is already being put to good use by many race car engineers... Today, anyone who wishes to make a career by understanding the automobile and its vagaries should start here. And anyone who wishes to appear to understand it should have this book on his or her desk--in the same way that Stephen Hawking's A Brief History of Time is essential!" --Race Car Engineering "...even if you're not historically inclined, the book's theoretical and technical sections (its vast majority) make for a definitive work on chassis dynamics, meaning that if you are an

armchair John Barnhard (or are John Barnhard), you might want to box a dozen or so of your Porsche or Bugatti books and make some room on the bookshelf for Race Car Vehicle Dynamics."

--Kim Reynolds, Road & Track "No other source provides such complete answers to why racing cars behave as they do. Very highly recommended." - Vintage Motorsport "An impressive... blend of analytical understanding and hard won practical experience from both passenger and race car design." --Automotive Engineer (published by IMechE) "On the macro level RCVD deals with general principles of vehicle dynamics but on the micro level was specifically geared towards racing; it synthesizes fundamental theory and practical application. Any race team that doesn't have a copy of this well written book is not winning as much as they could!" --Sabu Advani, SpeedReaders.info

I gave it 5 stars because I don't think it would be fair to do otherwise, but for me, it is way too technical and more of an automotive engineering handbook. Lots of graphs, formulas, and illustrations. I was really hoping for a more basic everyday man's guide on suspension geometry and such.

Amazing book, and a must have for anyone interested in vehicle dynamics/simulation. My only gripe with the book is the variable descriptions in the first half of the book. They are listed on the first page of the book and described prior to each equation. Unfortunately their definitions get lost amongst the sea of sub/super scripts and reused variables. I also highly recommend buying the companion book for extra computational practice.

**WATCH** for the Title of this product. This is not the Book, this is the Solution manual!!

This is the bible of suspension and chassis dynamics and race car setup. I was advised to get it by the man who was second in command at GM Staff Research some years ago. I hold a lap record at least partially due to what I learned from this book. I've given two friends of mine copies. Simply put - a must for any serious racer or race car shop.

Good book, but should use SI units. Also it oftens talks about calculations without actually showing them written down. Sometimes maths gives better explanations than words

Outstanding engineering reference book with a good bit of background and historical perspective. Broad and detailed information which I've used to develop some outstanding street suspension

systems to retrofit muscle cars. It is an engineering book, nowhere is there is a list of parts to buy for your car. The intent is to understand and balance the principles listed, and design your own.

I am a mechanical engineering student who works with racing vehicles. This book was amazing to read in the beginning in order to learn, and it is still amazing now to look up equations for various things, and to read more about the advanced characteristics of racing vehicles.

Used by UNCC mechanical engineering department as part of their automobile technology program. Very detail but well written. A non-engineer would find the book to be too technical, but to a mechanical engineer, the book is well written and illustrated. I use many of the examples in the book during my race car setup clinics to help students understand the dynamics. Can cure insomnia if you do not love the details on how/why a race car does what it does.

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