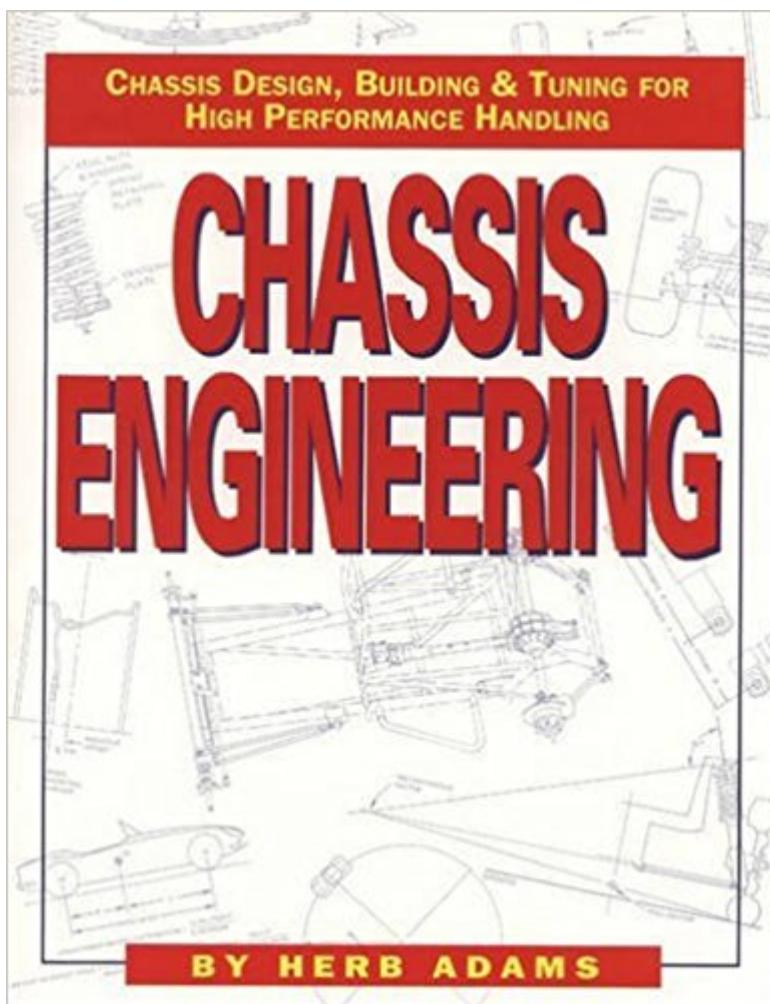


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# Chassis Engineering: Chassis Design, Building & Tuning For High Performance Handling



## Synopsis

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.

## Book Information

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Best Sellers Rank: #60,133 in Books (See Top 100 in Books) #3 in Books > Engineering & Transportation > Automotive > Repair & Maintenance > Suspension & Chassis #4 in Books > Engineering & Transportation > Automotive > Repair & Maintenance > Vehicle Design & Construction #6 in Books > Engineering & Transportation > Automotive > Customize

## Customer Reviews

Awesome information for someone looking to get into chassis building. Takes an elementary approach to explaining the physics and engineering of racing chassis and, while not expressly detailed, applicable to offroad builders too!

This book makes it easy to understand the fundamentals of chassis geometry and dynamics. The different forces acting on the car during acceleration, braking, cornering and when the suspension is compressed, are explained. How these forces affect handling, due to lack of rigidity of various parts of the car is thoroughly explained. There is much focus on:<sup>\*</sup> live rear axle (stiff), as opposed to independent<sup>\*</sup> round/oval track requirements<sup>\*</sup> rear wheel driveThere is not so much focus on (or neglected):<sup>\*</sup> independent rear suspension<sup>\*</sup> front wheel driveOverall, I highly recommend this book to anyone who wants a thorough understanding of how and why a car handles the way it does, and

how handling can be improved. It is a good place to start if you want to optimise your car, or even consider designing your own.

This is a very useful book that provides some valuable insights on how to improve the handling of your street car or race car. It is readable, understandable information that cuts through the speed market crap about how to get real handling performance without creating a powered rock. Some of the changes I was planning probably would have had little performance effect but really hurt the cars ride. The book is a little dated but basics don't change and that understanding is key. My only wish was there would have been a little more info on shock tuning.

This book goes into detail about custom chassis design. Specifically chassis made out of steel or aluminum tubing (space frame). Chapters are broken up into category of chassis design which shows and explains the strengths/weaknesses of each type of design. There is a somewhat negative tone about sprint car chassis design throughout the book, pretty much everything you shouldn't do when designing a chassis for safety and strength. Throughout the book they mention over and over again the importance of geometric shapes and designing to the strengths of each shape. The last chapter is about composite chassis (carbon fiber/fibreglass/kevlar). Overall I feel I have learned a great deal about designing a custom chassis and I feel fairly confident at actually getting to the point of creating my very own.

Book is okay. I am a beginning hot rod builder and maybe not the best rater based on my "one of a kind" build, however I found the major focus to be on race cars. as for building your own chassis, they "push" you to buy one done. I am dead set on doing it myself because I am using c4 rear corvette suspension and c5 front. there is no way around building my own. This book was only so helpful in my application.

Great book if you are seriously into cars and want to start to understand how all of the components work. Unfortunately that's as far as it goes, this book does not go so far into depth that you will be able to design your own setup. However it is a great introduction.

I bought several books which all gave valuable information on designing and building a race car. But this one to me was the most useful. It explains in simple terms everything on which the other books loose the practical approach and go into theory that is hard to apply. The section on chassis design

was the most useful to me. Something as simple as building a model and testing the forces gave me the assurance that my design was sound. Much more than any calculations or computer models that I could've done. Thanks for this great book.

Written in 1992, so it is really out of date, OK for beginners, but same stuff is on the Net for free. I'm just a hot rodder, but it was mostly old hat to me.

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