

[PDF] Physics For Gearheads: An Introduction To Vehicle Dynamics, Energy, And Power - With Examples From Motorsports

Randy Beikmann - pdf download free book



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Description:

There is no better way to learn physics than by having a problem to solve.

As a gearhead, you have a secret advantage when it comes to understanding physics: you see it at work every time you solve a problem with your car or watch a

motorsports event. The experience you already have tuning cars or motorcycles is your virtual physics lab. **Physics for Gearheads** will show you that if you can learn about cars, you can learn about physics.

Whether your interest is in increasing your engine's horsepower, getting more miles per gallon, or shaving tenths off your lap time on track day, you can use physics to gain insight into the problem and formulate a solution. **Physics for Gearheads** not only explains physics principles in language you can understand, it demonstrates how to use physics to your advantage.

Note on the units of measurement used in **Physics for Gearheads**: This book outfits the reader to work in SI or British Engineering units.

Chapters

1. A Warm-Up Lap
2. Kinematics Basics
3. Kinematics Applications
4. Dynamics Basics
5. Forces
6. Dynamics Applications
7. Torque, Force Resolution, and 2-D Vectors
8. Angular Dynamics Basics
9. Angular Dynamics Applications
10. Dynamics in a Plane Basics
11. Dynamics in a Plane Applications
12. Energy Basics
13. Energy Applications
14. Power Basics
15. Power Applications
16. Statics and Quasi-Statics Basics
17. Statics and Quasi-Statics Applications

Randy Beikmann is an automotive engineer working at the top of the industry. And he loves physics. Through his masterful teaching, physics doesn't look foreign - it looks like common sense.

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