



Performance Automotive Engine Math (Sa Design-Pro)

By John Baechtel



Download



Read Online



Get Print Book

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel

All the parts within any engine are designed and engineered using the appropriate mathematics to function efficiently and be durable. When discussing high-performance automotive engines, a specific set of math formulas are used to develop and design power plants to make more power at higher rpm levels and still survive. The various forms of motorsport and street use all have different requirements, but the math used to design engines to be competitive does not change, regardless of the specific discipline.

Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together in a book designed for automotive enthusiasts. This book walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to the hard measurements reflected in various engine parts. Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder.

Author Baechtel's experience and writing capabilities shine in *Performance Automotive Engine Math*, and this book will surely be a strong addition to any high-performance library.



[Download Performance Automotive Engine Math \(Sa Design-Pro\)](#)

[...pdf](#)



[Read Online Performance Automotive Engine Math \(Sa Design-Pr](#)

[...pdf](#)

Performance Automotive Engine Math (Sa Design-Pro)

By John Baechtel

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel

All the parts within any engine are designed and engineered using the appropriate mathematics to function efficiently and be durable. When discussing high-performance automotive engines, a specific set of math formulas are used to develop and design power plants to make more power at higher rpm levels and still survive. The various forms of motorsport and street use all have different requirements, but the math used to design engines to be competitive does not change, regardless of the specific discipline.

Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together in a book designed for automotive enthusiasts. This book walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to the hard measurements reflected in various engine parts. Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder.

Author Baechtel's experience and writing capabilities shine in *Performance Automotive Engine Math*, and this book will surely be a strong addition to any high-performance library.

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel Bibliography

- Sales Rank: #68934 in Books
- Brand: Sa Design
- Published on: 2011-04-29
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .38" w x 8.50" l, 1.10 pounds
- Binding: Paperback
- 160 pages

 [Download Performance Automotive Engine Math \(Sa Design-Pro\) ...pdf](#)

 [Read Online Performance Automotive Engine Math \(Sa Design-Pr ...pdf](#)

Download and Read Free Online Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel

Editorial Review

Review

"Author Baechtel's experience and writing capabilities shine in *Performance Automotive Engine Math*, and this book will surely be a strong addition to any high-performance library." (*Tomorrow's Technician* 2011-08-01)

"An invaluable reference guide for amateurs and professional alike." (Steve Hole *TotalKitCar Mag* 2011-09-01)

"A must for any automotive enthusiast's library!" (*Midwest Book Review* 2011-10-01)

"This book is so good I am buying a copy for my own library." (*Engine Professional* 2012-04-01)

Gold Medallion winner for Book Writing: Technical/Reference. -International Automotive Media Awards, 2011 (*2011 IAMA Award Winner* 2012-07-01)

From the Back Cover

High-performance racing engines differ from their street-based counterparts in many ways, but what specific internal design differences separate them? One answer lies in the math used to develop the best-possible performing powerplants for racing use. When engineered for maximum effectiveness and durability at high power levels and extreme RPM, performance engines of all types need to be built as a complete system. The sizes, clearances, and capabilities of these intricate machines are not chosen by chance, but rather through the use of proven formulas. In this book you'll find these formulas and the logic behind them. Everything from figuring out the engine's true displacement and compression ratio to determining the best-possible port size and camshaft dimensions are included. Whether you're a seasoned professional or a curious amateur, *Performance Automotive Engine Math* is a valuable learning guide and reference tool. Determining the best way to achieve high volumetric efficiency is the goal of all performance enthusiasts, and this book shows you exactly how to accomplish this, by the numbers.

About the Author

John Baechtel is a former editor of *Car Craft* and *Hot Rod* magazines and was a founding partner of the Westech Performance Group engine dyno-testing facility. With more than 34 years of high-performance engine and vehicle testing under his belt, he is a veteran author of many books, including *Performance Automotive Engine Math* and *Competition Engine Building*.

Users Review

From reader reviews:

Jane Nelsen:

Now a day individuals who Living in the era wherever everything reachable by match the internet and the resources included can be true or not demand people to be aware of each facts they get. How a lot more to be smart in receiving any information nowadays? Of course the solution is reading a book. Examining a book can help folks out of this uncertainty Information particularly this *Performance Automotive Engine Math* (Sa

Design-Pro) book since this book offers you rich info and knowledge. Of course the data in this book hundred percent guarantees there is no doubt in it everybody knows.

Robert Irizarry:

Exactly why? Because this Performance Automotive Engine Math (Sa Design-Pro) is an unordinary book that the inside of the book waiting for you to snap it but latter it will shock you with the secret the item inside. Reading this book adjacent to it was fantastic author who also write the book in such remarkable way makes the content on the inside easier to understand, entertaining method but still convey the meaning entirely. So , it is good for you for not hesitating having this any more or you going to regret it. This amazing book will give you a lot of rewards than the other book possess such as help improving your proficiency and your critical thinking method. So , still want to hesitate having that book? If I were you I will go to the reserve store hurriedly.

Manuel Arndt:

Do you have something that you prefer such as book? The guide lovers usually prefer to select book like comic, short story and the biggest an example may be novel. Now, why not trying Performance Automotive Engine Math (Sa Design-Pro) that give your satisfaction preference will be satisfied by reading this book. Reading addiction all over the world can be said as the opportunity for people to know world better then how they react in the direction of the world. It can't be explained constantly that reading behavior only for the geeky particular person but for all of you who wants to end up being success person. So , for all of you who want to start reading through as your good habit, you are able to pick Performance Automotive Engine Math (Sa Design-Pro) become your current starter.

Michael Gage:

In this era which is the greater particular person or who has ability in doing something more are more important than other. Do you want to become certainly one of it? It is just simple solution to have that. What you are related is just spending your time almost no but quite enough to enjoy a look at some books. One of the books in the top list in your reading list is definitely Performance Automotive Engine Math (Sa Design-Pro). This book which can be qualified as The Hungry Mountains can get you closer in becoming precious person. By looking right up and review this publication you can get many advantages.

Download and Read Online Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel #4L3PW9EFKCT

Read Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel for online ebook

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel books to read online.

Online Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel ebook PDF download

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel Doc

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel Mobipocket

Performance Automotive Engine Math (Sa Design-Pro) By John Baechtel EPub