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Performance Automotive Engine Math (Sa Design-Pro)

By John Baechtel



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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.



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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*.

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