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Math is a valuable learning guide and reference tool.

Determining the best way to achieve high volumetric efficiency is

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the goal of all performance enthusiasts, and this book shows you exactly how to accomplish this, by the numbers.

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...

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Overview. All the parts within any engine are designed and engineered using the

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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,

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but the math used to design engines to be competitive does not change

Performance Automotive Engine Math by John Baechtel ...

When discussing high-performance automotive engines, a specific set of math formulas are used to develop and design powerplants to make more power at higher

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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.

Performance Automotive Engine Math - CarTech Books

When discussing high-performance

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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...

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Engine displacement is the most common math calculation.

Displacement is the

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size of volumetric capacity of an engine expressed in cubic inches, cubic centimeters, or liters. Here in America, we typically work in cubic inches while the rest of the world uses the metric system. I discuss appropriate conversions later in this chapter.

**Performance
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Math: Street, Race |**

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Use the concept of designing the complete engine as a system, this book illustrates how formulas can be used to define sizes, clearances, and capabilities for components. This enables components to compliment and maximize each others performance, resulting in a superior high performance engine and saving money for

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the builder by selecting
the ...

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Hot Rod Engine Tech Performance Automotive Engine Math ...

For mild street cars,
take the maximum rpm

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and multiply it by the engine displacement. Next divide that number by 3,456 and multiply it by 0.85. For more dragstrip-oriented vehicle, replace the 0...

Common Automotive Mathematic Equations - Car Craft Math

Note that 0.050-inch tappet lift equals 0.050 times the rocker ratio to indicate valve lift at

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the checking point.
(Courtesy Comp Cams)
In terms of engine performance, the lobe center angle is significant. A larger angle yields less valve overlap (the period when both valves are open at the same time).

Camshaft Math to Design Competitive Engines

Formulas for indicated

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horsepower & torque.

horsepower = mep x
displacement x rpm /

792,00 torque = mep x
displacement / 150.8

mep = hp x 792,000 /
displacement x rpm

mep = hp x 792,000 /
displacement x rpm

mechanical efficiency
= brake output /

indicated output x
100. - 2 -.

Formulas used on the Car Math

Finding Displacement.

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Here's a simple example (see facing page or page 141) using the formula for engine displacement: Recall that displacement equals bore² x stroke x 0.7854 x the number of cylinders. Let's find the displacement for a 350 Chevy whose bore is 4.00 inches and the stroke is 3.48 inches.

How to Build an Engine Math

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rpm levels and still survive.

Performance Automotive Engine Math - Alternate Supercars

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MPH, CID, Piston
Speed, gear
ratio, carburetor
size, margin of
victory, Engine
calculator, Calculates
relative horsepower,
air density, density
altitude, virtual
temperature, actual air

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pressure, vapor
pressure and dyno
correction factor and
more.

Wallace Racing - Automotive Calculators

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and Mathematics. This
page intentionally left
blank. ... 12.9 Balance
of rotating parts of the
single cylinder engine
138 12.10 Four-
cylinder in-line engine
balance 139 12.11

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between crank throws
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harmonic motion (SHM)
139

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rotors with 5 x 4.75"
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Math Walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to hard measurements reflected in various engine parts, and a successful build.

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Page 25/28

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