

HPBooks

AUTO MATH HANDBOOK

Displacement
cylinder volume = $\pi \times 4 \times \text{bore}^2 \times \text{stroke}$
displacement = $\pi \times 4 \times \text{bore}^2 \times \text{stroke} \times$
number of cylinders
stroke = displacement $\div (\pi \times 4 \times \text{bore}^2 \times$
number of cylinders)
bore = displacement $\div (\pi \times 4 \times \text{stroke} \times$
number of cylinders)

Revised Edition!

Weight Distribution
percent of weight on
wheels = weight on

Center of Gravity
cg location behind front wheels
= rear wheel weight $\div$ overall
weight $\times$ wheelbase

Horsepower & Torque
horsepower = $\text{rpm} \times$
torque $\div 5252$ torque =
 $5252 \times \text{horsepower} \div$
rpm BSFC = fuel pounds

piston speed in fpm =
stroke in inches $\times$ rpm $\div 6$

**Easy Calculations for Engine Builders,
Auto Engineers, Racers, Students,
and Performance Enthusiasts**

John Lawlor & Bill Hancock

gForce & Weight Transfer
drive wheel torque = flywheel
torque $\times$ first gear $\times$ final
drive $\times 0.85$
wheel thrust = drive wheel
torque $\div$ rolling radius
 $g = \text{wheel thrust} \div \text{weight}$
weight transfer = weight $\times$ cg height $\div$ wheel-
base $\times g$ lateral acceleration = $1.227 \times \text{radius}$

NEW POSITION UPPER LINK MOUNT

NEW BRACKET CENTER

NEW PC

PULLS FORWARD .5625"

MOUNT

NEW POSITION LOWER TAB

Auto Math Handbook

JA Banks



Auto Math Handbook:

Auto Math Handbook John Lawlor, 1991 Offers formulas and equations for calculating brake horsepower and torque displacement stroke bore compression ratio and more Auto Math Handbook John Lawlor, William Hancock, Bill Hancock, 2011 Since 1991 John Lawlor's Auto Math Handbook has been a standard reference for auto engineers students racers and enthusiasts The formulas calculations and equations in this book are the foundation for any car or engine building project Engineer and racing engine builder Bill Hancock has updated and expanded the original edition with revised sections on Displacement bore and stroke Brake horsepower and torque Air capacity and volumetric efficiency Center of gravity weight distribution and g force New sections on instrument error and calibration rolling resistance aerodynamics planimeter usage computer programs and moment of inertia are presented in the same easy to read format using real world applications

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The book delves into Auto Math Handbook. Auto Math Handbook is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Auto Math Handbook, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Auto Math Handbook
- Chapter 2: Essential Elements of Auto Math Handbook
- Chapter 3: Auto Math Handbook in Everyday Life
- Chapter 4: Auto Math Handbook in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Auto Math Handbook. The first chapter will explore what Auto Math Handbook is, why Auto Math Handbook is vital, and how to effectively learn about Auto Math Handbook.

3. In chapter 2, this book will delve into the foundational concepts of Auto Math Handbook. The second chapter will elucidate the essential principles that need to be understood to grasp Auto Math Handbook in its entirety.

4. In chapter 3, the author will examine the practical applications of Auto Math Handbook in daily life. The third chapter will showcase real-world examples of how Auto Math Handbook can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Auto Math Handbook in specific contexts. This chapter will explore how Auto Math Handbook is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Auto Math Handbook. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Auto Math Handbook.

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Auto Math Handbook Introduction

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