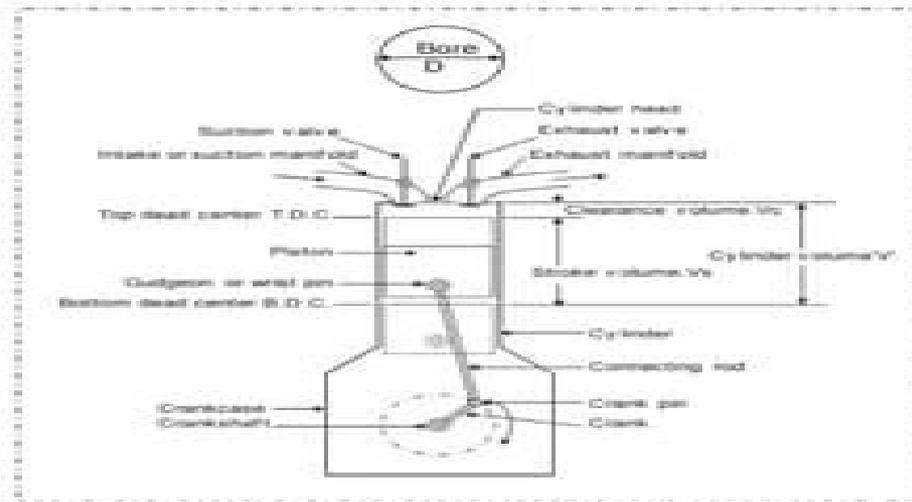




## TERMINOLOGY



Important positions and volumes in reciprocating engine

**Engine Cylinder diameter (bore) ( $D$ ):** The nominal inner diameter of the working cylinder.

**Piston area ( $A$ ):** The area of a circle of diameter equal to engine cylinder diameter (bore).

$$A = \pi / 4 \times D^2$$

**Engine Stroke length ( $L$ ):** The nominal distance through which a working piston moves between two successive reversals of its direction of motion.

**Dead center:** The position of the working piston and the moving parts, which are mechanically connected to it at the moment when the direction of the piston motion is reversed (at either end point of the stroke).

**Bottom dead center (BDC):** Dead center when the piston is nearest to the crankshaft. Sometimes it is also called outer dead center (ODC).

**Top dead center (TDC):** Dead center when the position is farthest from the crankshaft. Sometimes it is also called inner dead center (IDC).

**Swept volume ( $V_s$ ):** The nominal volume generated by the working piston when travelling from one dead center to next one, calculated as the product of piston area and stroke. The capacity described by engine manufacturers is the swept volume of the engine,  $V_s = A \times L = \pi / 4 \times D^2 L$ .

**Clearance volume ( $V_c$ ):** The nominal volume of the space on the combustion side of the piston at top dead center.

# Engine Performance Engine Theory

**John Baechtel**



## Engine Performance Engine Theory:

**Stock Car Racing Engine Technology** HP1506 Editor of Stock Car Racing Magazine, 2007-06-05 Build smarter race faster win more Covers topics such as airflow basics cylinder head and fuel systems tech blueprinting tips and techniques camshaft theory and selection

**Practical Engine Airflow** John Baechtel, 2015-12-15 The efficient flow of air through an engine is instrumental for producing maximum power To maximize performance engine builders seek to understand how air flows through components and ultimately through the entire engine Engine builders use this knowledge and apply specific practices and principles to unlock horsepower within an engine this applies to all engine types including V 8s V 6s and imported 4 cylinder engines Former Hot Rod magazine editor and founder of Westech Performance Group John Baechtel explains airflow dynamics through an engine in layman s terms so you can easily absorb it and apply it The principles of airflow are explained specifically the physics of air and how it flows through major engine components including the intake heads cylinders and exhaust system The most efficient and least restricted path through an engine is the key to high performance To get to this higher level the author explains atmospheric pressure air density and brake specific fuel consumption so you understand the properties of fuel for tuning Baechtel covers the primary factors for optimizing the airflow path This includes the fundamentals of air motion air velocity and boundary layers obstructions and pressure changes Flowing air through the heads and the combustion chamber is key and is comprehensively explained Also comprehensively explored is the exhaust system s airflow in particular primary tube size and length collector function and scavenging Chapters also include flowbench testing evaluating flow numbers and using airflow software In the simplest terms an engine is an air pump Whether you re a professional engine builder or a serious amateur engine builder you must understand engine airflow dynamics and must apply these principles if you want to optimize performance If you want to achieve ultimate engine performance you need this book

**Internal-combustion Engines, Theory and Design** Robert Leroy Streeter, Lester Clyde Lichty, 1929

*High Performance Engine Theory, 2nd ed* Dema Elgin,

**Steam-engine Theory and Practice** William Ripper, 1912

**Engine Design Concepts for World Championship Grand Prix Motorcycles** Alberto Boretti, 2012-08-06 The World Championship Grand Prix WCGP is the premier championship event of motorcycle road racing The WCGP was established in 1949 by the sport s governing body the F d ration Internationale de Motocyclisme FIM and is the oldest world championship event in the motorsports arena This book developed especially for racing enthusiasts by motorsports engineering expert Dr Alberto Boretti provides a broad view of WCGP motorcycle racing and vehicles but is primarily focused on the design of four stroke engines for the MotoGP class The book opens with general background on MotoGP governing bodies and a history of the event s classes since the competition began in 1949 It then presents some of the key engines that have been developed and used for the competition through the years Technologies that are used in today s MotoGP engines are discussed A sidebar discussion on calculating brake indicated and friction performance

parameters provides mathematical information for readers who like such technical details Future developments of MotoGP engines including the use of biofuels and recovery of thermal and braking energy are presented The introduction concludes with a chart that details the winners of the various classes of WCGP motorcycle racing since the competition began in 1949 The bulk of the book consists of four previously published SAE technical papers that were expressly chosen by Dr Boretti to provide greater insight to the relationships between engine parameters and performance namely the influence on friction and mean effective pressure of traditional spark ignited four stroke engines tuned for a narrow high power output The first paper provides the reader with a quick way to estimate the friction loss and engine output The second paper discusses output and fuel consumption of multi valve motorcycle engines The third paper published in 2002 compares WCGP engines developed to comply with the then new FIM regulations that allowed four stroke engines in the competition The fourth paper examines specific power densities and therefore the level of sophistication and costs of MotoGP 800 cm<sup>3</sup> engines This paper shows the performance of these as well as the 1000cc SuperBike engines The fifth paper presents four engine concepts including one for a MotoGP Superbike with 2 and 3 cylinders The sixth paper compares 3 and 4 in line V4 V5 and V6 layouts through 1 D engine simulations The seventh paper considers the actual operation of 800cc MotoGP engines on the race track where the percentage of the duration in fully open throttle is less than 20% of the race but the partial throttle is used for as much as 80% of the race The final paper in the compendium reports on the Honda oval piston engine concept *Internal Combustion Engine in Theory and Practice, second edition, revised, Volume 1* Charles Fayette Taylor, 1985-03-19 This revised edition of Taylor s classic work on the internal combustion engine incorporates changes and additions in engine design and control that have been brought on by the world petroleum crisis the subsequent emphasis on fuel economy and the legal restraints on air pollution The fundamentals and the topical organization however remain the same The analytic rather than merely descriptive treatment of actual engine cycles the exhaustive studies of air capacity heat flow friction and the effects of cylinder size and the emphasis on application have been preserved These are the basic qualities that have made Taylor s work indispensable to more than one generation of engineers and designers of internal combustion engines as well as to teachers and graduate students in the fields of power internal combustion engineering and general machine design

*Internal Combustion Engines, Their Theory, Construction and Operation* Rolla Clinton Carpenter, Herman Diederichs, 1908 **Design of Racing and High-Performance Engines 1998-2003** Daniel J Holt, 2003-08-05 The 53 technical papers in this book show the improvements and design techniques that researchers have applied to performance and racing engines They provide an insight into what the engineers consider to be the top improvements needed to advance engine technology and cover subjects such as 1 Direct injection 2 Valve spring advancements 3 Turbocharging 4 Variable valve control 5 Combustion evaluation and 5 New racing engines *Honda/Acura Engine Performance* Mike Kojima, 2002-04-02 A comprehensive guide to modifying the D B and H series Honda and Acura engines *Fundamentals of*

*Heat Engines* Jamil Ghajel, 2020-04-20 Summarizes the analysis and design of today's gas heat engine cycles. This book offers readers comprehensive coverage of heat engine cycles. From ideal theoretical cycles to practical cycles and real cycles, it gradually increases in degree of complexity so that newcomers can learn and advance at a logical pace and so instructors can tailor their courses toward each class level. To facilitate the transition from one type of cycle to another, it offers readers additional material covering fundamental engineering science principles in mechanics, fluid mechanics, thermodynamics, and thermochemistry. *Fundamentals of Heat Engines: Reciprocating and Gas Turbine Internal Combustion Engines* begins with a review of some fundamental principles of engineering science before covering a wide range of topics on thermochemistry. It next discusses theoretical aspects of the reciprocating piston engine, starting with simple air standard cycles followed by theoretical cycles of forced induction engines and ending with more realistic cycles that can be used to predict engine performance as a first approximation. Lastly, the book looks at gas turbines and covers cycles with gradually increasing complexity to end with realistic engine design point and off design calculations methods. Covers two main heat engines in one single reference. Teaches heat engine fundamentals as well as advanced topics. Includes comprehensive thermodynamic and thermochemistry data. Offers customizable content to suit beginner or advanced undergraduate courses and entry level postgraduate studies in automotive mechanical and aerospace degrees. Provides representative problems at the end of most chapters along with a detailed example of piston engine design point calculations. Features case studies of design point calculations of gas turbine engines in two chapters. *Fundamentals of Heat Engines* can be adopted for mechanical, aerospace, and automotive engineering courses at different levels and will also benefit engineering professionals in those fields and beyond.

**Marine Engineering in Theory and Practice** Sidney Gordon Wheeler, 1928      **Engine Testing** A. J. Martyr, M.A. PLINT, 2011-04-08 This book brings together the large and scattered body of information on the theory and practice of engine testing to which any engineer responsible for work of this kind must have access. Engine testing is a fundamental part of development of new engine and powertrain systems as well as of the modification of existing systems. It forms a significant part of the practical work of many automotive and mechanical engineers in the auto manufacturing companies, their suppliers, specialist engineering services organisations, the motor sport sector, hybrid vehicles, and tuning sector. The eclectic nature of engine, powertrain, chassis, and whole vehicle testing makes this comprehensive book a true must have reference for those in the automotive industry as well as more advanced students of automotive engineering. The only book dedicated to engine testing, over 4000 copies sold of the second edition. Covers all key aspects of this large topic including test cell set up, data management, dynamometer selection and use, air thermal combustion, mechanical, and emissions assessment. Most automotive engineers are involved with many aspects covered by this book, making it a must have reference.

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