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A V engine, sometimes called a Vee engine, is a common configuration for internal combustion engines. It consists of two cylinder banks – usually with the same number of cylinders in each bank – connected to a common crankshaft. These cylinder banks are arranged at an angle to each other, so that the banks form a "V" shape when viewed from the front of the engine.

~~V engine — Wikipedia~~

The fourth edition of Internal Combustion Engines was published by McGraw Hill Education India Pvt Ltd in 2012. It is available in

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paperback. About the
Author: V.Ganesan is a
Professor and the Head of
Mechanical Engineering in
IIT Madras. He has done
extensive research on topics
like: Heat transfer and
internal combustion engines.

~~Internal Combustion Engines
(Fourth Edition) by V
Ganesan . . .~~

This book, Internal
Combustion Engines, gives
the fundamental concepts and
the specifics of various
engine designs. The
information is provided in a
comprehensive manner, with
highly detailed sketches.
The book is divided into
twenty chapters, each

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Ganesan Tmh
covering different aspects
of internal combustion
engines.

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By V Ganesan Tmh~~

V-type engines typically
have two rows of cylinders
set at a 90-degree angle to

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~~Ganeshan~~ — hence the “V” formation — with each row bearing half the number of total cylinders. As a result, V-type engines are shorter and take up less room than straight ones, enabling carmakers to decrease the size of the engine compartment and increase crumple zones and passenger space.

~~The Internal Combustion Engine, Explained~~

IC Engines by V Ganeshan He has done extensive research on topics like: Design of Machine Elements. The final section of the book is dedicated to a discussion on two-stroke engines. The book

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~~Ganesan~~ is divided into twenty chapters, each covering different aspects of internal combustion engines.

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Bare cylinder block of a V8 engine. Piston, piston ring, gudgeon pin and connecting rod. The base of a reciprocating internal combustion engine is the engine block, which is typically made of cast iron or aluminium. The engine block contains the cylinders.

~~Internal combustion engine
Wikipedia~~

Electric Vehicle vs Internal

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~~Combustion Engine Vehicle: A~~
Total Cost of Ownership
Analysis Tom Lombardo posted
on November 05, 2017 |
Here's a spreadsheet that
helps you compare the TCO of
different vehicles. Under
most circumstances, electric
vehicles have a smaller
carbon footprint than their
conventional counterparts.
Newer studies suggest ...

~~Electric Vehicle vs Internal
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~~...~~

Four strokes of
genius. Directed by Claude
Cloutier - 2000

~~Science Please! : The
Internal Combustion Engine~~

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Internal-combustion engine, any of a group of devices in which the reactants of combustion (oxidizer and fuel) and the products of combustion serve as the working fluids of the engine. Such an engine gains its energy from heat released during the combustion of the nonreacted working fluids, the oxidizer-fuel mixture.

~~internal combustion engine |~~
~~Definition & Facts |~~
~~Britannica~~

Internal-Combustion Engines
Paperback - International
Edition, January 1, 1945 by
V. L. Maleev (Author) >

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Authority US United States

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Prior art keywords fuel
valve cylinder air
combustion Prior art date
1898-08-09 Legal status (The
legal status is an
assumption and is not a
legal conclusion.

~~US608845A — Internal
combustion engine — Google
Patents~~

Valves. Any four-stroke
internal combustion engine
must have at a minimum two
valves per cylinder: one to
act as an inlet for a
fuel/air mixture and one to
exhaust the gasses after
combustion. Aircraft engines
generally make use of a two
valve arrangement.

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~~Introduction to Aircraft
Internal Combustion Engines~~

...

Thus we have $dQ = dU + p dV$
 $d(\mu T) = dU - p dV$ (4.4)

232 Internal Combustion
Engines Chap. 4. The total
specific internal energy
of the gas includes
contributions of burned and
unburned gases, with a mass
fraction (X of burned gas,
(4.5) where $\langle \rangle$ denotes an
average over the entire mass
of burned or unburned gas in
the cylinder.

This text, by a leading

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authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed.

More than 120 authors from science and industry have documented this essential resource for students, practitioners, and professionals.

Comprehensively covering the development of the internal combustion engine (ICE), the information presented captures expert knowledge

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and serves as an essential resource that illustrates the latest level of knowledge about engine development. Particular attention is paid toward the most up-to-date theory and practice addressing thermodynamic principles, engine components, fuels, and emissions. Details and data cover classification and characteristics of reciprocating engines, along with fundamentals about diesel and spark ignition internal combustion engines, including insightful perspectives about the history, components, and complexities of the present-day and future IC engines.

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Chapter highlights include:
Classification of
reciprocating engines
Friction and Lubrication
Power, efficiency, fuel
consumption Sensors,
actuators, and electronics
Cooling and emissions Hybrid
drive systems Nearly 1,800
illustrations and more than
1,300 bibliographic
references provide added
value to this extensive
study.

Providing a comprehensive
introduction to the basics
of Internal Combustion
Engines, this book is
suitable for: Undergraduate-
level courses in mechanical
engineering, aeronautical

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Course and automobile engineering. Postgraduate-level courses (Thermal Engineering) in mechanical engineering. A.M.I.E. (Section B) courses in mechanical engineering. Competitive examinations, such as Civil Services, Engineering Services, GATE, etc. In addition, the book can be used for refresher courses for professionals in auto-mobile industries. Coverage Includes Analysis of processes (thermodynamic, combustion, fluid flow, heat transfer, friction and lubrication) relevant to design, performance, efficiency, fuel and emission requirements of

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internal combustion engines. Special topics such as reactive systems, unburned and burned mixture charts, fuel-line hydraulics, side thrust on the cylinder walls, etc. Modern developments such as electronic fuel injection systems, electronic ignition systems, electronic indicators, exhaust emission requirements, etc. The Second Edition includes new sections on geometry of reciprocating engine, engine performance parameters, alternative fuels for IC engines, Carnot cycle, Stirling cycle, Ericsson cycle, Lenoir cycle, Miller cycle, crankcase

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ventilation, supercharger controls and homogeneous charge compression ignition engines. Besides, air-standard cycles, latest advances in fuel-injection system in SI engine and gasoline direct injection are discussed in detail. New problems and examples have been added to several chapters. Key Features Explains basic principles and applications in a clear, concise, and easy-to-read manner Richly illustrated to promote a fuller understanding of the subject SI units are used throughout Example problems illustrate applications of theory End-of-chapter review questions

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and problems help students reinforce and apply key concepts Provides answers to all numerical problems

Now in its fourth edition, Introduction to Internal Combustion Engines remains the indispensable text to guide you through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice is sure to help you understand internal combustion engines, from thermodynamics and

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Combustion to fluid mechanics and materials science. Introduction to Internal Combustion Engines: - Is ideal for students who are following specialist options in internal combustion engines, and also for students at earlier stages in their courses - especially with regard to laboratory work - Will be useful to practising engineers for an overview of the subject, or when they are working on particular aspects of internal combustion engines that are new to them - Is fully updated including new material on direct injection spark engines, supercharging

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and renewable fuels - Offers a wealth of worked examples and end-of-chapter questions to test your knowledge - Has a solutions manual available online for lecturers at www.palgrave.com/engineering/stone

Internal Combustion Engines covers the trends in passenger car engine design and technology. This book is organized into seven chapters that focus on the importance of the in-cylinder fluid mechanics as the controlling parameter of combustion. After briefly dealing with a historical overview of the various phases of automotive

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Industry, the book goes on discussing the underlying principles of operation of the gasoline, diesel, and turbocharged engines; the consequences in terms of performance, economy, and pollutant emission; and of the means available for further development and improvement. A chapter focuses on the automotive fuels of the various types of engines. Recent developments in both the experimental and computational fronts and the application of available research methods on engine design, as well as the trends in engine technology, are presented in the

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concluding chapters. This book is an ideal compact reference for automotive researchers and engineers and graduate engineering students.

Meant for the undergraduate students of mechanical engineering this hallmark text on I C Engines has been updated to bring in the latest in IC Engines. Self explanatory sketches, graphs, line schematics of processes and tables along with illustrated examples, exercises and problems at the end of each chapter help in practicing the application of the basic principles presented in the

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If you like cars, but you don't know how they work, then This educational resource contains valuable information destined to those who are passionate about cars. You can easily understand and remember the process and every detail. It tackles: A descriptions about the main car parts Aiming to simplify the mechanical operations inside the vehicle, it's supported with simple 3D or real models...to enhance, visualize and associate the car parts with description in a practical way, and how each part works with the

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rest. After this, a four stroke engine detailed and well explained will inform you about all what you need to know, we make sure that you will easily grasp the whole process.

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