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Valvoline Inc. (NYSE: VVV) – a global leader in vehicle care
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products – recently announced the launch of XEV, the brand 's first
...

Valvoline leading future of automotive electrification products in
China with launch of ' XEV, ' a Suite of Hybrid and EV Products
Internal Combustion Block Internal combustion blocks used in aircraft
engines often feature extremely complex geometries that are outside
the ability of most machine shops and require multiple ...

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Engine No. 1 Announces Support for General Motors Co. ’ s Transformative Electric Vehicle Plan in Advance of Automaker ’ s Investment Day

With the new spending, Ford is making a significant bet on a future that envisions most drivers eventually making the shift to battery power from internal combustion engines, which have powered ...

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Ford to add 10,800 jobs making electric vehicles, batteries

In this Tuesday, Nov. 28, 2017 photo a Hertz rental car logo rests on the front of a Hertz location, in Boston. Car rental company Hertz is ordering 100,000 electric vehicles from Tesla.

Hertz to buy 100,000 Teslas; rentals available starting November, CEO says

Instead, Hamilton will start 11th on Sunday as penalty for changing the internal combustion engine on his Mercedes, and teammate Valtteri Bottas assumed the pole. Max Verstappen, locked in one of ...

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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.

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This applied thermoscience book covers the basic principles and applications of various types of internal combustion engines. Explores the fundamentals of most types of internal combustion engines with a major emphasis on reciprocating engines. Covers both spark ignition and compression ignition engines as well as those operating on four-stroke cycles and on two-stroke cycles ranging in size from small model airplane engines to the larger stationary engines. Examines recent advancements, such as, Miller cycle analysis, lean burn engines, 2-stroke cycle automobile engines, variable valve timing, and thermal storage.

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This text, by a leading 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.

Digital Calculations of Engine Cycles is a collection of seven papers which were presented before technical meetings of the Society of Automotive Engineers during 1962 and 1963. The papers cover the spectrum of the subject of engine cycle events, ranging from an examination of composition and properties of the working fluid to simulation of the pressure-time events in the combustion chamber. The volume has been organized to present the material in a logical sequence. The first two chapters are concerned with the equilibrium states of the working fluid. These include the concentrations of various

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species of any significance that may appear at equilibrium in the combustion products, as well as the pressures and temperatures to be expected. This is followed by separate chapters on Mollier diagrams of the combustion products and the Otto cycle. The last two chapters focus on the synthesis of the spark ignition engine cycle from basic information on thermodynamics, heat transfer, and combustion. The results of the synthesis of these cycles are then compared to the actual cycle produced by an engine.

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

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and applied practice is sure to help you understand internal combustion engines, from thermodynamics and 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 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

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From dirt bikes and jet skis to weed wackers and snowblowers, machines powered by small gas engines have become a permanent—and loud—fixture in American culture. But fifty years of high-speed fun and pristine lawns have not come without cost. In the first comprehensive history of the small-bore engine and the technology it powers, Paul R. Josephson explores the political, environmental, and public health issues surrounding one of America's most dangerous pastimes. Each chapter tells the story of an ecosystem within the United States and the devices that wreak havoc on it—personal watercraft (PWCs) on inland lakes and rivers; all-terrain vehicles (ATVs) in deserts and forests; lawn mowers and leaf blowers in suburbia. In addition to environmental impacts, Josephson discusses the development and promotion of these technologies, the legal and regulatory efforts made to improve their safety and environmental

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soundness, and the role of owners' clubs in encouraging responsible operation. Synthesizing information from medical journals, recent environmental research, nongovernmental organizations, and manufacturers, Josephson's compelling history leads to one irrefutable conclusion: these machines cannot be operated without loss of life and loss of habitat.

The mechanical engineering curriculum in most universities includes at least one elective course on the subject of reciprocating piston engines. The majority of these courses today emphasize the application of thermodynamics to engine efficiency, performance, combustion, and emissions. There are several very good textbooks that support education in these aspects of engine development. However, in most companies engaged in engine development there are far more

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engineers working in the areas of design and mechanical development. University studies should include opportunities that prepare engineers desiring to work in these aspects of engine development as well. My colleagues and I have undertaken the development of a series of graduate courses in engine design and mechanical development. In doing so it becomes quickly apparent that no suitable text book exists in support of such courses. This book was written in the hopes of beginning to address the need for an engineering-based introductory text in engine design and mechanical development. It is of necessity an overview. Its focus is limited to reciprocating-piston internal-combustion engines – both diesel and spark-ignition engines. Emphasis is specifically on automobile engines, although much of the discussion applies to larger and smaller engines as well. A further intent of this book is to provide a concise reference volume on engine design

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and mechanical development processes for engineers serving the engine industry. It is intended to provide basic information and most of the chapters include recent references to guide more in-depth study.

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