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More information is needed on the explicit environmental effects of electrification, writes an Automotive News reader in a letter to the editor.

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New York, June 25, 2021 (GLOBE NEWSWIRE) -- Reportlinker.com announces the release of the report "Internal Combustion Engine Market Forecast to 2028 - COVID-19 Impact and Global Analysis By Fuel Type, ...

~~Internal Combustion Engine Market Forecast to 2028 - COVID-19 Impact and Global Analysis By Fuel Type, Power Output, End-User, and Cylinders~~
The internal combustion engine is an engine in which the combustion of a fuel occurs with an oxidizer (usually air) in a combustion chamber that is an integral part of the working fluid flow circuit.

~~Internal Combustion Engine~~
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Jun 21, 2021 (The Expresswire) -- "Final Report will add the analysis of the impact of COVID-19 on this industry." Global "Commercial Internal Combustion Engines Market" report is first of its ...

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Summarising the impact of hydrogen in heavy-duty internal combustion ... have a high tolerance for the quality of the hydrogen used. Hydrogen in internal combustion engines makes the Netherlands and ...

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Policy changes in the US are expected to have limited impact on EV sales in 2021 ... pandemic and faster EV adoption means that internal combustion engine (ICE) vehicle sales in the passenger ...

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A new study of the real impact of battery electric vehicles (BEVs) compared to internal combustion engine vehicles (ICEVs), in terms of both total cost of ownership (net of public subsidies) and ...

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The impact on jobs in this sector will be ... in a statement. De Vries said internal combustion engines are climate neutral when running on sustainable renewable fuels and battery-electric ...

~~Combustion engine ban proposal criticized by auto lobby groups~~
internal combustion engine (ICE) for heavy goods transportation. The direct collaboration aims at combining advanced material and casting technologies with the latest H2 ICE technology using high ...

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The two pre-World War I generations encompassed the greatest innovative period in history. Technical inventions of 1867-1914 & their rapid improvement & commercialisation created new prime movers, materials, infrastructures & information means that provided the lasting foundations of the modern world.

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

With the changing landscape of the transport sector, there are also alternative powertrain systems on offer that can run independently of or in conjunction with the internal combustion (IC) engine. This shift has actually helped the industry gain traction with the IC Engine market projected to grow at 4.67% CAGR during the forecast period 2019-2025. It continues to meet both requirements and challenges through continual technology advancement and innovation from the latest research. With this in mind, the contributions in Internal Combustion Engines and Powertrain Systems for Future Transport 2019 not only cover the particular issues for the IC engine market but also reflect the impact of alternative powertrains on the propulsion industry. The main topics include: • Engines for hybrid powertrains and electrification • IC engines • Fuel cells • E-machines • Air-path and other technologies achieving performance and fuel economy benefits • Advances and improvements in combustion and ignition systems • Emissions regulation and their control by engine and after-treatment • Developments in real-world driving cycles • Advanced boosting systems • Connected powertrains (AI) • Electrification opportunities • Energy conversion and recovery systems • Modified or novel engine cycles • IC engines for heavy duty and off highway Internal Combustion Engines and Powertrain Systems for Future Transport 2019 provides a forum for IC engine, fuels and powertrain experts, and looks closely at developments in powertrain technology required to meet the demands of the low carbon economy and global competition in all sectors of the transportation, off-highway and stationary power industries.

This book presents the papers from the Internal Combustion Engines: Performance, fuel economy and emissions held in London, UK. This popular international conference from the Institution of Mechanical Engineers provides a forum for IC engine experts looking closely at developments for personal transport applications, though many of the drivers of change apply to light and heavy duty, on and off highway, transport and other sectors. These are exciting times to be working in the IC engine field. With the move towards downsizing, advances in FIE and alternative fuels, new engine architectures and the introduction of Euro 6 in 2014, there are plenty of challenges. The aim remains to reduce both CO2 emissions and the dependence on oil-derivate fossil fuels whilst meeting the future, more stringent constraints on gaseous and particulate material emissions as set by EU, North American and Japanese regulations. How will technology developments enhance performance and shape the next generation of designs? The book introduces compression and internal combustion engines ' applications, followed by chapters on the challenges faced by alternative fuels and fuel delivery. The remaining chapters explore current improvements in combustion, pollution prevention strategies and data comparisons. presents the latest requirements and challenges for personal transport applications gives an insight into the technical advances and research going on in the IC Engines field provides the latest developments in compression and spark ignition engines for light and heavy-duty applications, automotive and other markets

This handbook is an important and valuable source for engineers and researchers in the area of internal combustion engines pollution control. It provides an excellent updated review of available knowledge in this field and furnishes essential and useful information on air pollution constituents, mechanisms of formation, control technologies, effects of engine design, effects of operation conditions, and effects of fuel formulation and additives. The text is rich in explanatory diagrams, figures and tables, and includes a considerable number of references. An important resource for engineers and researchers in the area of internal combustion engines and pollution control Presents and excellent updated review of the available knowledge in this area Written by 23 experts Provides over 700 references and more than 500 explanatory diagrams, figures and tables

With the increasing interest in decreasing the environmental impact from internal combustion engines as well as increasing the fuel efficiency has led to deeper investigation into the components of the engine. The mechanical friction in an engine is a major concern, any improvements or reductions in friction can have large implication on the' efficiency of the engines. This thesis focuses on the piston/ ring pack assembly and its contribution to friction. It investigates several key components and trends in friction for the piston/ ring pack assembly, specifically the trends related to the oil control ring and the liner surface. The Floating Liner Engine is used in this study to isolate results from different components. The data collected can be used for comparative analysis and to identify trends in the friction trace. The thesis starts with describing the Floating Liner Engine system at MIT in detail. Both the data collection and the hardware systems are described as well as the test capabilities of the Floating Liner Engine. The results used in the thesis have been collected using the motoring condition. The oil control ring plays a key role in controlling the supply of oil to the top two rings and hence has a higher tension that the top two rings. This leads to the oil control ring having a significant contribution to the total friction of the system. The two most prevalent oil control rings used in the industry are the twin land oil control ring (TLOCR) and the three piece oil control ring (TPOCR). The thesis investigates the effect of changing liner roughness on the friction of the TLOCR. A comparison between the TLOCR and the TPOCR is also performed using the same liner surfaces. The results from these studies show a marked difference between the friction traces from the two oil control rings.