

Gasoline Direct Injection Engine Cold Start Improvement By

Daniela Siano

Automotive Spark-Ignited Direct-Injection Gasoline Engines F. Zhao, M.-C. Lai, D.L. Harrington, 2000-02-08 The process of fuel injection, spray atomization and vaporization, charge cooling, mixture preparation and the control of in-cylinder air motion are all being actively researched and this work is reviewed in detail and analyzed. The new technologies such as high-pressure, common-rail, gasoline injection systems and swirl-atomizing gasoline fuel injections are discussed in detail, as these technologies, along with computer control capabilities, have enabled the current new examination of an old objective; the direct-injection, stratified-charge (DISC), gasoline engine. The prior work on DISC engines that is relevant to current GDI engine development is also reviewed and discussed. The fuel economy and emission data for actual engine configurations have been obtained and assembled for all of the available GDI literature, and are reviewed and discussed in detail. The types of GDI engines are arranged in four classifications of decreasing complexity, and the advantages and disadvantages of each class are noted and explained. Emphasis is placed upon consensus trends and conclusions that are evident when taken as a whole; thus the GDI researcher is informed regarding the degree to which engine volumetric efficiency and compression ratio can be increased under optimized conditions, and as to the extent to which unburned hydrocarbon (UBHC), NO_x and particulate emissions can be minimized for specific combustion strategies. The critical area of GDI fuel injector deposits and the associated effect on spray geometry and engine performance degradation are reviewed, and important system guidelines for minimizing deposition rates and deposit effects are presented. The capabilities and limitations of emission control techniques and after treatment hardware are reviewed in depth, and a compilation and discussion of areas of consensus on attaining European, Japanese and North American emission standards presented. All known research, prototype and production GDI engines worldwide are reviewed as to performance, emissions and fuel economy advantages, and for areas requiring further development. The engine schematics, control diagrams and specifications are compiled, and the emission control strategies are illustrated and discussed. The influence of lean-NO_x catalysts on the development of late-injection, stratified-charge GDI engines is reviewed, and the relative merits of lean-burn, homogeneous, direct-injection engines as an option requiring less control complexity are analyzed.

Automotive Gasoline Direct-Injection Engines Fuquan Zhao, David L Harrington, Ming-chia Lai, 2002-05-15 This book covers the latest global technical initiatives in the rapidly progressing area of gasoline direct injection (GDI), spark-ignited gasoline engines and examines the contribution of each process and sub-system to the efficiency of the overall system. Including discussions, data, and figures from many technical papers and proceedings that are not available in the English language, Automotive Gasoline Direct Injection Systems will prove to be an invaluable desk reference for any GDI subject or direct-injection subsystem that is being developed worldwide.

Internal Combustion Engines Institution of Mechanical Engineers, 2011-11-10 This book contains the papers of the Internal Combustion Engines: Performance fuel economy and emissions conference, in the IMechE bi-annual series, held on the 29th and 30th November 2011. The internal combustion engine is produced in tens of millions per year for applications as the power unit of choice in transport and other sectors. It continues to meet both needs and challenges through improvements and innovations in technology and advances from the latest research. These papers set out to meet the challenges of internal combustion engines, which are greater than ever. How can engineers reduce both CO₂ emissions and the dependence on oil-derivate fossil fuels? How will they meet 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? This conference looks 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. - Aimed at anyone with interests in the internal combustion engine and its challenges - The papers consider key questions relating to the internal combustion engine

Joint Meeting of the U.S. Sections of the Combustion Institute, Western States, Central States, Eastern States, 1999

Proceedings of SAE-China Congress 2016: Selected Papers China Society of Automotive Engineers, 2017-03-07 This proceedings volume gathers outstanding papers submitted to the 2016 SAE-China Congress, the majority of which are from China, the biggest car maker as well as most dynamic car market in the world. The book includes insights into the current challenges that the whole industry is currently facing, and it offers possible solutions to problems such as emission controls, environmental pollution, the energy shortage, traffic congestion and sustainable development. It also presents the latest technical achievements in the automotive industry. Many of the approaches it presents can help technicians to solve the practical problems that most affect their daily work.

Emission Control and Fuel Economy John H Johnson, 2005-06-27 Emission and fuel economy regulations and standards are compelling manufacturers to build ultra-low emission vehicles. As a result, engineers must develop spark-ignition engines with integrated emission control systems that use reformulated low-sulfur fuel. Emission Control and Fuel Economy for Port and Direct Injected SI Engines is a collection of SAE technical papers that covers the fundamentals of gasoline direct

injection (DI) engine emissions and fuel economy, design variable effects on HC emissions, and advanced emission control technology and modeling approaches. All papers contained in this book were selected by an accomplished expert as the best in the field; reprinted in their entirety, they present a pathway to integrated emission control systems that meet 2004-2009 EPA standards for light-duty vehicles.

Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance Richard Folkson, Steve Sapsford, 2022-07-27 *Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance: Towards Zero Carbon Transportation, Second Edition* provides a comprehensive view of key developments in advanced fuels and vehicle technologies to improve the energy efficiency and environmental impact of the automotive sector. Sections consider the role of alternative fuels such as electricity, alcohol and hydrogen fuel cells, as well as advanced additives and oils in environmentally sustainable transport. Other topics explored include methods of revising engine and vehicle design to improve environmental performance and fuel economy and developments in electric and hybrid vehicle technologies. This reference will provide professionals, engineers and researchers of alternative fuels with an understanding of the latest clean technologies which will help them to advance the field. Those working in environmental and mechanical engineering will benefit from the detailed analysis of the technologies covered, as will fuel suppliers and energy producers seeking to improve the efficiency, sustainability and accessibility of their work. - Provides a fully updated reference with significant technological advances and developments in the sector - Presents analyses on the latest advances in electronic systems for emissions control, autonomous systems, artificial intelligence and legislative requirements - Includes a strong focus on updated climate change predictions and consequences, helping the reader work towards ambitious 2050 climate change goals for the automotive industry

Potential and Challenges of Low Carbon Fuels for Sustainable Transport Avinash Kumar Agarwal, Hardikk Valera, 2022-01-01 This book focuses on low carbon fuels a preferable class of fuels for Internal Combustion Engines (ICEs) highlighting the effect of low carbon fuels on tailpipe emissions. This book aims to strengthen the knowledge base dealing with low carbon fuels as a sustainable transport fuel. The volume includes recent results and are focused on current trends of automotive sector. This book will be of interest to those in academia and industry involved in fuels, IC engines, engine instrumentation, and environmental research.

Mechatronics in Automotive Engineering: Concepts and Techniques Dr. A.K. Darwins, Dr. Lalu Gladson Robin, Dr. M. Edwin Sahayaraj, 2024-08-15 The ever-evolving landscape of automotive engineering demands a deep understanding of various interdisciplinary concepts, where traditional mechanical systems are now intricately linked with electronic and computational elements. The field of mechatronics, which synergistically combines mechanics, electronics, control engineering, and computer science, has become indispensable in the design, development, and optimization of modern

automotive systems. This book, *Mechatronics in Automotive Engineering: Concepts and Techniques*, aims to provide an in-depth exploration of the fundamental and advanced principles that drive the integration of mechatronics in the automotive industry. Authored by Dr. A.K. Darwins, Dr. Lalu Gladson Robin, and Dr. M. Edwin Sahayaraj from the Department of Automobile Engineering at NICHE University, Kanyakumari, this book is a culmination of years of academic research, practical insights, and teaching experience. Our motivation for writing this book stems from the need to bridge the gap between theoretical knowledge and practical application in automotive mechatronics. We have structured the content to cater to both students and professionals in the field, offering clear explanations of key concepts, supported by real-world examples and case studies. Each chapter is designed to build on the previous one, leading the reader through a logical progression of topics ranging from the basics of mechatronic systems to the latest advancements in automotive technology. In addition to core mechatronic principles, this book delves into specific areas such as Electronic Engine Management Systems, Integrated Actuating and Feedback Devices, and the role of mechatronics in enhancing vehicle safety, performance, and efficiency. The inclusion of questions, summaries, and suggestions for further reading at the end of each chapter is intended to reinforce learning and encourage deeper exploration of the subject matter. We believe that this book will serve as a valuable resource for students pursuing degrees in automotive engineering, as well as for engineers and technicians seeking to update their knowledge in the rapidly changing field of automotive mechatronics. It is our hope that the insights and knowledge shared within these pages will inspire and equip the next generation of automotive engineers to innovate and excel in their careers. We would like to express our gratitude to NICHE University for providing us with the platform and support to undertake this project. We are also thankful to our colleagues, students, and industry professionals whose feedback and contributions have been instrumental in shaping the content of this book.

Advanced Microsystems for Automotive Applications 2000 Sven Krüger, Wolfgang Gessner, 2012-12-06

Microsystems are an important success factor in the automobile industry. In order to fulfil the customers' requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. With the international conference AMAA 2000, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers.

Annual Index/abstracts of SAE Technical Papers ,2007

Advanced Renewable Energy Systems, (Part 1 and 2) S. C. Bhatia, 2014-04-14 The book is a complete treatise on renewable energy sources and also includes issues relating to biofuels. It aims to serve as a text for undergraduate and postgraduate students in relevant disciplines and a reference for all the professionals in the related fields.

Environmentally Conscious Transportation Myer Kutz, 2008-03-03 The fifth volume of the Wiley Series in

Environmentally Conscious Engineering, Environmentally Conscious Transportation provides a foundation for understanding and implementing methods for reducing the environmental impact of a wide range of transportation modes, from private automobiles (with a separate chapter on biofuels) to heavy trucks and buses to rail and public transportation systems to aircraft. Each chapter has been written by one or more experts who, based on their hands-on field experience, present relevant practical and analytic techniques for enhancing the integrity and reliability of transportation vehicles and infrastructure, as well as for measuring and limiting the pollution caused by transportation activities. Moreover, the book explains how to satisfy key business objectives, such as maximizing profits, while meeting environmental objectives.

Reducing Particulate Emissions in Gasoline Engines Thorsten Boger, Willard Cutler, 2018-11-28 For years, diesel engines have been the focus of particulate matter emission reductions. Now, however, modern diesel engines emit less particles than a comparable gasoline engine. This transformation necessitates an introduction of particulate reduction strategies for the gasoline-powered vehicle. Many strategies can be leveraged from diesel engines, but new combustion and engine control technologies will be needed to meet the latest gasoline regulations across the globe. Particulate reduction is a critical health concern in addition to the regulatory requirements. This is a vital issue with real-world implications. Reducing Particulate Emissions in Gasoline Engines encompasses the current strategies and technologies used to reduce particulates to meet regulatory requirements and curtail health hazards - reviewing principles and applications of these techniques. Highlights and features in the book include: Gasoline particulate filter design, function and applications Coated and uncoated three way catalyst design and integration Measurement of gasoline particulate matter emission, both laboratory and PEMS The goal is to provide a comprehensive assessment of gasoline particulate emission control to meet regulatory and health requirements - appealing to calibration, development and testing engineers alike.

Concepts in Turbocharging for Improved Efficiency and Emissions Reduction Mehrdad Zangeneh, 2014-09-22 Legislative requirements to reduce CO₂ emissions by 2020 have resulted in significant efforts by car manufacturers to explore various methods of pollution abatement. One of the most effective ways found so far is by shortening the cylinder stroke and downsizing the engine. This new engine then needs to be boosted, or turbocharged, to create the full and original load torque. Turbocharging has been and will continue to be a key component to the new technologies that will make a positive difference in the next-generation engines of years to come. Concepts in Turbocharging for Improved Efficiency and Emissions Reduction explores the many ways that turbocharging will deliver concrete results in meeting the new realities of sustainable, green transportation. This collection of very focused technical papers, selected by Mehrdad Zangeneh, PhD., a professor of thermo-fluids at University College in London, provides an assessment of several novel designs intended to improve fuel consumption and cap emissions, while maintaining torque at all speeds. The book is divided into four sections, each addressing the most cutting-edge technologies on the market today: o Two-Stage Turbocharging o Variable Geometry

Compressors o Unconventional Compressor Configurations o Electrically Assisted Turbocharging

Charging the Internal Combustion Engine Hermann Hiereth, Peter Prenninger, 2007-11-04 This book covers all aspects of supercharging internal combustion engines. It details charging systems and components, the theoretical basic relations between engines and charging systems, as well as layout and evaluation criteria for best interaction. Coverage also describes recent experiences in design and development of supercharging systems, improved graphical presentations, and most advanced calculation and simulation tools.

Advanced Direct Injection Combustion Engine Technologies and Development H Zhao, 2014-01-23 Direct injection enables precise control of the fuel/air mixture so that engines can be tuned for improved power and fuel economy, but ongoing research challenges remain in improving the technology for commercial applications. As fuel prices escalate DI engines are expected to gain in popularity for automotive applications. This important book, in two volumes, reviews the science and technology of different types of DI combustion engines and their fuels. Volume 1 deals with direct injection gasoline and CNG engines, including history and essential principles, approaches to improved fuel economy, design, optimisation, optical techniques and their applications. - Reviews key technologies for enhancing direct injection (DI) gasoline engines - Examines approaches to improved fuel economy and lower emissions - Discusses DI compressed natural gas (CNG) engines and biofuels

A Study of Technological Improvements in Automobile Fuel Consumption Donald A. Hurter, 1974

A Study of Technological Improvements in Automobile Fuel Consumption: Comprehensive discussion Donald A. Hurter, 1974

Fuel Injection Daniela Siano, 2010-08-17 Fuel Injection is a key process characterizing the combustion development within Internal Combustion Engines (ICEs) and in many other industrial applications. State of the art in the research and development of modern fuel injection systems are presented in this book. It consists of 12 chapters focused on both numerical and experimental techniques, allowing its proper design and optimization.

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