

# Common Rail Diesel Engine Management, Part 1

A detailed tech examination

By Julian Edgar

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## At a glance...

- Diesel functioning
- Injection start timing
- Injection duration
- Injection discharge curve
- Common rail system components

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Dizel je doživio revolucionaran razvoj tokom poslednje decenije. Pogledajte samo oko sebe koliko putničkih automobila s dizel motorom prodato. Šta je dovelo do transformacije smrdljivog, bučnog i prljavog motora u njegovu sadašnju rafiniranu formu? U većini slučajeva to je sistem za ubrizgavanje goriva zvan: common rail. Hajde da napravimo detaljan tehnički pogled.

## Dizel motori



Svakako osnovni dizajn benzinskih i dizel motora je približno isti (oba imaju dvo ili četvorotaktni motore s klipnim mehanizmom i radilicom), kod dizel motora se ne sabija smeša goriva i vazduha čije se sagorevanje inicira koničnjem svećice.

Although the basic designs of petrol and diesel engines are similar (both are two or four stroke designs which use reciprocating pistons driving a crankshaft), a diesel engine does not compress its fuel/air charge and then initiate combustion by the use of a spark plug. Instead, in a diesel engine just air is compressed. When the piston is near Top Dead Centre, the fuel is sprayed by an injector into the combustion chamber, whereupon it mixes with the hot compressed air and self-ignites.

In order that the air within the diesel combustion chamber reaches an adequate temperature for self-ignition to occur, the compression ratio needs to be much higher than found in a spark ignition engine. Compression ratios in the range of 16:1 to 24:1 are commonly used, giving forced aspirated diesel engines a compression pressure of up to 150 Bar. This generates temperatures of up to 900 degrees C. Since the ignition temperature of the most easily combustible components of diesel fuel is only 250 degrees C, it is easy to see why the fuel burns when it is injected after the piston has risen on the compression stroke.

# Common Rail Diesel Engine Management Part 1

**Bernard Challen, Rodica Baranescu**



## **Common Rail Diesel Engine Management Part 1:**

**Diesel Emissions and Their Control, 2nd Edition** W. Addy Majewski, Hannu Jääskeläinen, 2023-12-20 Engineers applied scientists students and individuals working to reduce emissions and advance diesel engine technology will find the second edition of *Diesel Emissions and Their Control* to be an indispensable reference. Whether readers are at the outset of their learning journey or seeking to deepen their expertise, this comprehensive reference book caters to a wide audience. In this substantial update to the 2006 classic, the authors have expanded the coverage of the latest emission technologies. With the industry evolving rapidly, the book ensures that readers are well informed about the most recent advances in commercial diesel engines, providing a competitive edge in their respective fields. The second edition has also streamlined the content to focus on the most promising technologies. This book is rooted in the wealth of information available on DieselNet.com, where the Technology Guide papers offer in-depth insights. Each chapter includes links to relevant online materials, granting readers access to even more expertise and knowledge. The second edition is organized into six parts, providing a structured journey through every aspect of diesel engines and emissions control: Part I: A foundational exploration of the diesel engine combustion and essential subsystems; Part II: An in-depth look at emission characterization, health and environmental impacts, testing methods, and global regulations; Part III: A comprehensive overview of diesel fuels, covering petroleum, diesel alternative fuels, and engine lubricants; Part IV: An exploration of engine efficiency and emission control technologies, from exhaust gas recirculation to engine control; Part V: The latest developments in diesel exhaust aftertreatment, encompassing catalyst technologies and particulate filters; Part VI: A historical journey through the evolution of diesel engine technology, with a focus on heavy-duty engines in the North American market. ISBN 9781468605693 ISBN 9781468605709 ISBN 9781468605716 DOI 10.4271/9781468605709

**International and Interdisciplinary Studies in Green Computing** Ganesh, K., Anbuudayasankar, S. P., 2012-12-31 With the growing awareness and popularity of environmental preservation, research on green computing has gained recognition around the world. Information technology must adopt initiatives in making computers as energy efficient as possible, as well as design algorithms and systems for efficiency-related computer technologies. *International and Interdisciplinary Studies in Green Computing* provides coverage on strategic green issues and practices for competitive advantages and cost cutting in modern organizations and business sectors in order to reach environmental goals. *JB; JB/T; JBT - Product Catalog. Translated English of ...*, **Combustion Engines** Aman Gupta, Shubham Sharma, Sunny Narayan, 2017-02-03 Vehicle noise, vibration, and emissions are only a few of the factors that can have detrimental effects on the overall performance of an engine. These aspects are benchmarks for choice of customers while choosing a vehicle or for engineers while choosing an engine for industrial applications. It is important that mechanical and automotive engineers have some knowledge in this area as a part of their well-rounded training for designing and selecting various types of engines. This volume is a valuable introductory text and a handy reference for any engineer.

manager or technician working in this area The automotive industry and other industries that make use of engines in their industrial applications account for billions or even trillions of dollars of revenue worldwide and are important in the daily lives of many if not most of the people living on this planet This is an area that affects a staggering number of people and the information needed by engineers and technicians concerning the performance of various types of engines is of paramount importance in designing and selecting engines and the processes into which they are introduced

*Advanced Direct Injection Combustion Engine Technologies and Development* H Zhao,2009-12-18 Volume 2 of the two volume set *Advanced direct injection combustion engine technologies and development* investigates diesel DI combustion engines which despite their commercial success are facing ever more stringent emission legislation worldwide Direct injection diesel engines are generally more efficient and cleaner than indirect injection engines and as fuel prices continue to rise DI engines are expected to gain in popularity for automotive applications Two exclusive sections examine light duty and heavy duty diesel engines Fuel injection systems and after treatment systems for DI diesel engines are discussed The final section addresses exhaust emission control strategies including combustion diagnostics and modelling drawing on reputable diesel combustion system research and development Investigates how HSDI and DI engines can meet ever more stringent emission legislation Examines technologies for both light duty and heavy duty diesel engines Discusses exhaust emission control strategies combustion diagnostics and modelling

*Alternative Fuels and Advanced Combustion Techniques as Sustainable Solutions for Internal Combustion Engines* Akhilendra Pratap Singh,Dhananjay Kumar,Avinash Kumar Agarwal,2021-05-15 This monograph covers different aspects related to utilization of alternative fuels in internal combustion IC engines with a focus on biodiesel dimethyl ether alcohols biogas etc The focal point of this book is to present engine combustion performance and emission characteristics of IC engines fueled by these alternative fuels A section of this book also covers the potential strategies of utilization of these alternative fuels in an energy efficient manner to reduce the harmful pollutants emitted from IC engines It presents the comparative analysis of different alternative fuels in a variety of engines to show the appropriate alternative fuel for specific types of engines This book will prove useful for both researchers as well as energy experts and policy makers

**Sustainable Bioconversion of Waste to Value Added Products** Inamuddin,Anish Khan,2021-04-20 This edited book discusses various processes of feedstocks bioconversion such as bioconversion of food waste human manure industrial waste beverage waste kitchen waste organic waste fruit and vegetable poultry waste solid waste agro industrial waste cow dung steroid lignocellulosic residue biomass natural gas etc Nowadays the industrial revolution and urbanization have made human life comfortable However this requires excess usage of natural resources starting from food and food products to energy resources materials as well as chemicals The excess use of natural resources for human comfort is expected to high fuel prices decline natural resources as well as cause a huge hike in the cost of raw materials These factors are pushing researchers to grow environmentally friendly processes and techniques based on inexpensive and sustainable

feedstock to accomplish such worldwide targets Bioconversion otherwise called biotransformation is the change of natural materials for example plant or animal waste into usable items or energy sources by microorganisms Bioconversion is an environmentally friendly benevolent choice to supplant the well established chemical procedures utilized these days for the production of chemicals and fuels A variety of alternatives advancements are being considered and are directly accessible to acquire diverse valuable end products through bioprocesses This book discusses in detail the process and techniques of bioconversion by focusing on the organic feedstock of animal and plant origin It brings solutions to the bioconversion of various feedstock into value added products

**Environmental Rating of Indian Automobile Sector** ,2001 **Journal of Engineering for Gas Turbines and Power** ,2008 **Proceedings of the ASME Dynamic Systems and Control Division** ,1994 Diesel Engine Reference Book Bernard Challen,Rodica Baranescu,1999 The Diesel Engine Reference Book Second Edition is a comprehensive work covering the design and application of diesel engines of all sizes The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from passenger cars and light trucks through to large marine vessels The Diesel Engine Reference Book systematically covers all aspects of diesel engineering from thermodynamics theory and modelling to condition monitoring of engines in service It ranges through subjects of long term use and application to engine designers developers and users of the most ubiquitous mechanical power source in the world The latest edition leaves few of the original chapters untouched The technical changes of the past 20 years have been enormous and this is reflected in the book The essentials however remain the same and the clarity of the original remains Contributors to this well respected work include some of the most prominent and experienced engineers from the UK Europe and the USA Most types of diesel engines from most applications are represented from the smallest air cooled engines through passenger car and trucks to marine engines The approach to the subject is essentially practical and even in the most complex technological language remains straightforward with mathematics used only where necessary and then in a clear fashion The approach to the topics varies to suit the needs of different readers Some areas are covered in both an overview and also in some detail Many drawings graphs and photographs illustrate the 30 chapters and a large easy to use index provides convenient access to any information the readers requires

In-cylinder Diesel Particulate and NOx Control 2007 ,2007 **Advances in Automotive Control 1998** G. Rizzoni,V. Utkin,1998 This volume contains the Proceedings of the 2nd IFAC Workshop on Advances in Automotive Control the theme of which was control of automotive systems Eighty delegates participated in the Workshop presenting a total of thirty nine papers Several technical demonstrations were available on site Two plenary lectures presented by industry experts opened each of the two full days of the Workshop which was capped by a panel discussion with industry and university participants These Proceedings comprise high quality technical papers on five distinct subjects control of vehicle systems control of intelligent transportation systems control of hybrid electric powertrains powertrain modeling and estimation and powertrain control

*Combustion and flow*

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