



Diesel-Engine Management

By Robert Bosch GmbH

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Diesel-Engine Management By Robert Bosch GmbH

Innovations by Bosch in the field of diesel-injection technology have made a significant contribution to the diesel boom in Europe in the last few years. These systems make the diesel engine at once quieter, more economical, more powerful, and lower in emissions. This reference book provides a comprehensive insight into the extended diesel fuel-injection systems and into the electronic system used to control the diesel engine. This book also focuses on minimizing emissions inside of the engine and exhaust-gas treatment (e.g., by particulate filters). The texts are complemented by numerous detailed drawings and illustrations.

This 4th Edition includes new, updated and extended information on several subjects including:

- History of the diesel engine
- Common-rail system
- Minimizing emissions inside the engine
- Exhaust-gas treatment systems
- Electronic Diesel Control (EDC)
- Start-assist systems
- Diagnostics (On-Board Diagnosis)

With these extensions and revisions, the 4th Edition of Diesel-Engine Management gives the reader a comprehensive insight into today's diesel fuel-injection technology.

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Editorial Review

Review

"This book provides a comprehensive insight into the extended diesel fuel-injection systems and into the electronic system used to control the diesel engine". (Motor Industry Magazine, 1 May 2011)

"A comprehensive insight into the extended diesel fuel-injection system ... This 4th edition includes new, updated and extended information on several subjects." (*Motor Industry Magazine*, September 2008)

From the Back Cover

Innovations by Bosch in the Field of diesel-injection technology, such as the unit injector and common-rail high-pressure fuel-injection systems, have made a significant contribution to the diesel boom in Europe in the last few years. These systems make the diesel engine at once quieter, more economical, more powerful, and lower in emissions. This reference book provides a comprehensive insight into the extended diesel fuel-injection systems and into the electronic system used to control the diesel engine. This book also focuses on minimizing emission inside of the engine and exhaust-gas treatment (e.g., by particulate filters). The texts are complemented by numerous detailed drawings and illustrations.

Contents - central themes

History of the diesel engine - Basic principles of the diesel engine and of diesel fuel injection - Cylinder-charge control systems - Diesel fuel-injection systems: in-line, distributor and single-plunger fuel-injection pumps, unit injector, unit pump, common rail - Electronic Diesel Control - Emissions-Control engineering and emissions-control legislation - Sensors - Diagnostics (on-board diagnostics).

The target groups

- Motor-vehicle technicians in education and vocational training
- Motor-vehicle foremen and technicians in garage-workshops
- Teachers in vocational schools
- Lecturers and students at universities and technical colleges

About the Bosch Group

Bosch is the world's largest independent supplier of parts and equipment for motor vehicles. Innovations by Bosch have shaped the development of the automobile. Bosch's dominant technological role in many fields is demonstrated by the fact that it has the most patent application in automotive engineering in Germany, to the European Patent Office and in the USA.

About the Author

Robert Bosch GmbH is ranked among the world's major equipment suppliers. The Bosch experts that make up the editorial team come from the relevant divisions of Bosch and are at the forefront of technical developments in their field. Bosch demonstrates its leading competence in automotive technology through the sheer number of its applications for patents and patented designs.

Users Review

From reader reviews:

Anne Stewart:

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