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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
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Advanced Direct Injection Combustion Engine Technologies and Development: Gasoline and Gas Engines (Woodhead Publishing in Mechanical Engineering) From Woodhead Publishing Bibliography

- Sales Rank: #5035825 in Books
- Published on: 2009-11-09
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 6.25" w x .75" l, 1.36 pounds
- Binding: Hardcover
- 312 pages

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Editorial Review

About the Author

Professor Hua Zhao leads a large research group on IC engines and their fuels at Brunel University West London. He has over 20 years' research experience in combustion engines and combustion flows. His research covers both gasoline and diesel engines and their fuels, with particular emphasis on advanced combustion processes and engine cycles. He has published over 150 papers and authored a comprehensive book on engine combustion instrumentation and diagnostics.

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