



Gasoline Engine with Direct Injection: Processes, Systems, Development, Potential (ATZ/MTZ-Fachbuch)

By Richard van Basshuysen

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Direct injection spark-ignition engines are becoming increasingly important, and their potential is still to be fully exploited. Increased power and torque coupled with further reductions in fuel consumption and emissions will be the clear trend for future developments. From today's perspective, the key technologies driving this development will be new fuel injection and combustion processes. The book presents the latest developments, illustrates and evaluates engine concepts such as downsizing and describes the requirements that have to be met by materials and operating fluids. The outlook at the end of the book discusses whether future spark-ignition engines will achieve the same level as diesel engines.

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Editorial Review

Review

"Es ist dem Herausgeber und dem gut 20-köpfigen Autorenteam gelungen, ein umfassendes und ausführliches Standardwerk zu gestalten, welches auf einem beeindruckend aktuellen technischen Stand erscheint."

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From the Back Cover

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About the Author

Dr.-Ing. E. h. Richard van Basshuysen was Head of Development for premium class vehicles and for engine and transmission development at Audi. Today, he is editor of the magazines ATZ and MTZ. The editor was supported by a distinguished team of authors consisting of 22 experts and scientists from industry and universities.

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