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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.

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ows; and advanced combustion systems for direct-injection diesel engines. The hypotheses that are tested in this thesis are that turbulent uctuations signi cantly impact heat release and emissions in advanced diesel engines and that PDF methods capture TCI e ects in real engines. Contri-

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Gasoline direct injection (GDI), also known as petrol direct injection (PDI), is a mixture formation system for internal combustion engines that run on gasoline (petrol), where fuel is injected into the combustion chamber. This is distinct from manifold fuel injection systems, which inject fuel into the intake manifold.

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Over the last decade, significant progress has been made in the development of direct injection internal combustion engines. It may have been by coincidence that direct injection technology was developed and applied almost simultaneously to spark ignition (SI) gasoline engines and light-duty diesel engines in the mid-1990s, but the direct injection technology had been adopted in both engines for the same reason - to increase the efficiency of internal combustion (IC) engines for automotive ...

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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.

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The results show that the injection timing, as well as intake charge dilution, can severely promote clean combustion at the low-load zone. An advanced diesel injection can enhance the diesel-natural gas homogeneity within the cylinder and improve the combustion efficiency of the engine.

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In an internal combustion engine, the expansion of the high- temperature and high- pressure gases produced by combustion applies direct force to some component of the engine. The force is applied typically to pistons, turbine blades, rotor or a nozzle. This force moves the component over a distance, transforming chemical energy into useful work.

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Gasoline direct injection - Wikipedia

Direct injection enables precise control of the fuel/air mixture so that engines can be tuned for improved power and fuel economy. This must be balanced against increased equipment costs and emissions, presenting ongoing research challenges in improving the technology for commercial applications.

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