



# Automotive Gasoline Direct-Injection Engines

*Fuquan Zhao, David L. Harrington, Ming-Chia Lai*

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This book covers the latest global technical initiatives in the rapidly progressing area of gasoline direct injection (GDI), spark-ignited gasoline engines and examines the contribution of each process and subsystem to the efficiency of the overall system. The focus is both on the fundamental processes of mixture preparation, combustion, and emissions formation, and the practical issues related to engine system development, such as cold start, deposits, oil dilution, and aftertreatment systems. Information on direct fuel injection, spray formation, entrainment, and mixing, combustion and emissions is presented within an organized framework of current state-of-the-art hardware and processes. Including discussions, data, and figures from many technical papers and proceedings that are not available in the English language, Automotive Gasoline Direct-Injection Engines will prove to be an invaluable desk reference for any GDI subject of direct-injection subsystem that is being developed worldwide.

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