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Nota di contenuto	Introduction of Methanol: A Sustainable Transport Fuel for SI Engines -- Methanol as an alternative fuel in Internal Combustion Engine: Scope, Production and Limitations -- Methanol as a ow-cost alternative fuel for the reduction of emissions -- Energy Analysis of Methanol Synthesis via Reverse Water Gas Shift Reactor -- Methanol - A sustainable fuel for SI engine -- A Brief Review on Methanol Fueled Vehicles (MFV) in China and Implementation Policy -- Regulated and Unregulated Emissions from Methanol Fuelled Engines -- Low-Temperature Combustion Kinetics of Methanol Blended Gasoline and Methanol Synthesized Dimethyl Ether.
Sommario/riassunto	This monograph focuses on methanol and its utilization in transportation sector, namely in spark ignition (SI) engines. The contents focus on methanol production and presents a variety of production technologies from different feedstocks. The potential of methanol utilization in transportation in SI engines is discussed, its challenges, limitations, aspects related to its utilization and current global use of methanol are also presented. The book also contains

chapters related to pollutant formation and exhaust emissions from methanol fuelled SI engines, one chapter is focused specifically on formaldehyde emissions, which possesses one of the greatest challenges of methanol use in IC engines. Readers will learn about the production aspects of methanol, its potential as a sustainable fuel, its utilization in SI engine and the effect of methanol and its utilization techniques on engine performance, combustion, exhaust emissions, efficiency and other important parameters. This volume willbe a useful guide for professionals, post-graduate students involved in alternative fuels, spark ignition engines, and environmental research.