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Nota di contenuto	Modeling and Experimental Studies of NOx and Soot Emissions in Common Rail Direct Injection Diesel Engines -- Transient Reacting Flow Simulations of Chemical Looping Combustion -- Model based fault detection on modern automotive engines -- Analysis Approach to Determine Pollutants Generated from Combustion using Computational Fluid Dynamics -- On-Board Post Combustion Emission Control Strategies for Diesel Engine in India to meet Bharat Stage VI Norms -- Wear and Lubrication Study of Internal Combustion Engine -- A study on Advancements in Innovative Technologies Influencing Industrial NOx Emissions -- Ceria based mixed oxide nanoparticles for diesel engine emission control -- Sustainable Coating Design and role of Liquid-Mediated Contact -- Advanced Combustion Strategies for Particulate Reduction from Internal Combustion Engines -- Study of instability

Sommario/riassunto

This book describes the discusses advanced fuels and combustion, emission control techniques, after-treatment systems, simulations and fault diagnostics, including discussions on different engine diagnostic techniques such as particle image velocimetry (PIV), phase Doppler interferometry (PDI), laser ignition. This volume bridges the gap between basic concepts and advanced research in internal combustion engine diagnostics, making it a useful reference for both students and researchers whose work focuses on achieving higher fuel efficiency and lowering emissions. .