



Comparative Performance of 12 Crankcase Oil Mist Separators 5

Vahid Golkarfard, Ramanathan Subramaniam, Jonathan Broughton, Andrew King, and Benjamin Mullins

A Refined OD Turbulence Model to Predict Tumble and Turbulence in SI Engines 15

Fabio Bozza, Luigi Teodosio, Vincenzo De Bellis, Stefano Fontanesi, and Agostino Iorio

Numerical Investigation of the Characteristics of Spray/Wall Interaction with Hybrid Breakup Model by Considering Nozzle Exit Turbulence. 31

Wenliang Qi, Pingjian Ming, Ye Peng, and Aisha Jilani

A Distributed Parameter Approach for the Modeling of Thermoelectric Devices. 45

Carlo Villante, Michele Anatone, and Angelo De Vita

Reduction of Cyclic Variations by Using Advanced Ignition Systems in a Lean-Burn Stationary Natural Gas Engine Operating at 10 Bar BMEP and 1800 rpm 57

Bader Almansour, Subith Vasu, and Sreenath Gupta

Finite Element Thermo-Structural Methodology for Investigating Diesel Engine Pistons with Thermal Barrier Coating 69

Paolo Baldissera and Cristiana Delprete

Understanding the Origin of Cycle-to-Cycle Variation Using Large-Eddy Simulation: Similarities and Differences between a Homogeneous Low-Revving Speed Research Engine and a Production DI Turbocharged Engine. 79

Alessandro d'Adamo, Sebastiano Breda, Fabio Berni, and Stefano Fontanesi

A Study of Low Temperature Plasma-Assisted Gasoline HCCI Combustion 101

Taisuke Shiraishi