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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Automotive Engineering and Mobility Research; Preface, Committee and Acknowledgements; Table of Contents; Chapter 1: Biodiesel, Diesel and Gases Fuel; An Analysis of the Ambient Condition Effect on Biodiesel Spray Using Constant Volume Chamber; Analysis of Mixture Formation and Flame Development in Biodiesel Burner Combustion Using Direct Optical Visualization Technique ; Comparative Study of Properties and Engine Performance Using Blend of Palm and Coconut Biodiesel Effect of Ethanol-Coconut Oil Methyl Ester on the Performance, Emission and Combustion Characteristics of a High-Pressure Common-Rail DI EngineEffect of Premixed Diesel Fuel on Partial HCCI Combustion Characteristics; Effects of Ambient Temperature Condition on Biodiesel Properties Derived from Palm Oil; Effects of Biodiesel on Performance and Emissions Characteristics in Diesel Engine; Prospect of Parallel Biodiesel and Bioethanol Production from JatrophaCurcas Seed; Public Perception and Acceptance of Diesel-Powered Passenger Cars in Malaysia: An Initial Study Stability Studies of Water-in-Diesel EmulsionSpray Characteristics of

Diesel-CNG Dual Fuel Jet Using Schlieren Imaging Technique; The Effect of High Carbon Dioxide Content on the Performance and Emission Characteristics of a Direct Injection (DI) Compressed Natural Gas Engine; Chapter 2: Computational and Experimental Mechanics; An Experimental and Numerical Analysis of Empty and Foam-Filled Aluminium Conical Tubes under Oblique Impact Loading; Application of the Wavelet Transforms for Compressing Lower Suspension Arm Strain Data

Fatigue Life Prediction of Leaf Spring through Multi Mean S-N Approach Importance of Selecting a Suitable Analysis Frequency Range in Impact Force Identification for Automobile Test Rig; Multi-Objective Optimization of Aluminum Foam Double Tube Subjected to Oblique Impact Loading for Automobile Bumper Beam; Stress Intensity Factors of Eccentric Cracks in Bi-Material Plates; Stress and Modal Analysis Assessment of Race Cars Chassis Structure; Control of Crack Propagation in Composite Fiberglass-Polyester Laminates Using Nitinol Wire

Simulation on Force Tracking Control of a Magnetorheological Damper under Impact Loading

Sommario/riassunto

Collection of Selected, Peer Reviewed Papers from the 2 nd International Conference On recent Advances in Automotive Engineering and Mobility Research (ReCAR 2013), December 16-18, 2013, Kuala Lumpur, Malaysia. The 120 papers are grouped as follows: Chapter 1: Biodiesel, Diesel and Gases Fuel, Chapter 2: Computational & Experimental Mechanics, Chapter 3: Dynamics, Control and Mechatronics, Chapter 4: Materials and Processing Technologies, Chapter 5: Engine Lubrication and Thermoengineering, Chapter 6: Internal Combustion Engine and Computational Fluid Mechanics, Chapter 7: Noise, Monitoring, Vi
