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Nota di contenuto	Current Development of Mechanical Engineering and Energy; Preface; Table of Contents; Chapter 1: Vehicle and Transportation Engineering; Study on the Larger Bus Body Stability of Bend Steering; Study on Photovoltaic Array Design for Solar Energy Vehicle; Study of a New Type of Dangerous Goods Transport Vehicle Rear Protective Device; An In-Vehicle Monitoring System with OBD-Based Vehicle Terminal; Research on Electric Vehicle Charging & Battery Swapping Robot System; Modeling and Simulation of MacPherson Suspension Based on LMS Virtual.Lab Motion Design of Power Windows Based on POWERLINK Industrial EthernetThe Summarize of High Power LED Headlamps Cooling Design of Automobile; Design Calculation on Chain Conveyor of Material Storage and Transportation Box of Automatic Loading and Unloading Vehicle; A Study on Brake Noise Using the Complex Modal Analysis Method; Comfort Evaluation Research on Clutch Operation of Light Commercial Vehicle; Research on Integration Design of Automobile Waste Heat

Thermoelectric Generation Exchanger and Engine Muffler
Simulation and Study on Ride Comfort of Articulated Dump Truck Based on Rigid-Flex CouplingThe Hall Automotive Wheel Speed Sensor and Simulation for its Signal Processing; Wind-Induced Vibration of the Rear-View Mirrors of Car at High Speed; Research on the Affection of Vehicle Lateral Stability Related to the Improved ABS; The Quantification Research of Engine Body Defect that Tested by Ultrasonic Phased Array; Analysis of Vehicle Interior Low-Frequency Noise Based on ATV; The Engine Oil Sump Radiated Noise Optimization Design; A Novel OFDM Radar Algorithm in Vehicular Environment
Kinetic Analysis of the Unbalanced Masses of Wheel Based on ADAMSStudy on the Fuel-Saving Efficiency of Electric Vehicles under Empirical Test; Thermal Management System Design and Simulation of Battery Pack for Electric Vehicles; Vehicle Embedded Speech Recognition and Control System Research and Implementation; A Comparative Study on Driving Performance Induced by Music Mood for Development of In-Vehicle Media Players; Analysis of Automotive Steering Column Regulation Performance Based on Abaqus; Vehicle Suspension K&C Characteristic Simulation Analysis Based on ADAMS Design of System to Prevent Drunken Driving Based on Internet of VehiclesAchieve the WWD-0.8/10 Air Compressor's Motion Simulation; The Ergonomics Research of the Joystick in Excavator Cab; Research on the Split Electric Variable Transmission for Hybrid Electric Vehicle; Simulation Research on Aerodynamic Characteristics of Vehicle under Steady Crosswind Based on XFlow; Vibration Fatigue Analysis for the Frame of Vehicle Equipment; Analysis and Simulation System of Vehicle Dynamic Performance; Research on the Effect of Alignments of Mountainous Highways on Driver Characteristics
Conjoint Simulation of Active Suspension and ABS

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Symposium on Vehicle, Mechanical, and Electrical Engineering (ISVMEE 2013), December 21-22, 2013, Taiwan, China. The 420 papers are grouped as follows: Chapter 1: Vehicle and Transportation Engineering; Chapter 2: Design and Manufacturing Technology in Mechanical Engineering; Chapter 3: Measurement and Instrumentation, Monitoring and Detection Technologies, Fault Diagnosis; Chapter 4: Industrial Robotics, Mechatronics and Control; Chapter 5: Electrical Engineering, Electrical Machines and Apparatus, Power Electronics; Cha