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Titolo	Advances in mechanical and manufacturing engineering : selected, peer reviewed papers from the International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E 2013), November 25-28, 2013, Kuala Lumpur, Malaysia / / edited by Zamir A. Zulkefli [and eight others]
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ISBN	3-03826-489-X
Descrizione fisica	1 online resource (779 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 564
Disciplina	621
Soggetti	Mechanical engineering Electronic engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Mechanical and Manufacturing Engineering; Preface and Committees; Table of Contents; Chapter 1: Vehicles Engineering; A Review of Current Development in Natural Fiber Composites in Automotive Applications; An Analytical Model of Homogeneous Charge Compression Ignition Engine for Performance Prediction; Application of Shape Optimization Method on Steel Wheel Rim; Current Status of Audit on Board Ferry Services Operating between Labuan and Mainland (Sabah, Sarawak and Brunei); Design Improvement of Automatic Transmission System for Remote Controlled Car Effects of Geometrical Shapes and Orientations of Metal Foams Subjected to Impact Loading Energy Absorption of Partially Filled Side Member Subjected to Oblique Crash; Engine Map and Optimal Operation Path Construction for an Engine-CVT Powertrain System; Lateral Collision with Side Airbag: A Literature Review; New Car Assessment Program for Southeast Asian Countries: Current Status and Future Developments; Numerical Investigations of Membrane Surface Effects on NACA 643- 218 Airfoil; Performance and Emission of a

Common Rail Passenger Car Engine Fuelled with Palm Oil Biodiesel  
 Risk Evaluation Approach in Failure Mode and Effect Analysis of  
 Automotive Headlamp Assembly Simulation and Analysis on the Effect  
 of Gross Vehicle Weight on Braking Distance of Heavy Vehicle; Single-  
 Grade Engine Lubricant: Introduce Viscosity Index Numerical Order  
 (VIno); Problems Evaluation for TRIZ Method Using AHP: Case Study on  
 Car's Dashboard Improvement Design Concepts; Design of a Three  
 Wheeler Vehicle's Driver's Seat Considering Ergonomics; Development  
 of an Ergonomic Infant Seat with Restraint System for Use in an Aircraft  
 Cab Transfer Process Improvement at an Automotive Manufacturing  
 Facility Generic Theoretical and Experimental Development of Micro  
 Aerial Vehicle Using Fundamental Principles; Overview of Coanda Jet  
 and Vortex Cell Circulation Control; Chapter 2: Sound and Vibration; A  
 Study of the Acoustics and Speech Intelligibility Quality of Mosques in  
 Malaysia; Application of a Multipole Secondary Source for Propeller  
 Active Noise Control; Efficient Vibration Control with a Semi-Active  
 Vibration Absorber in a Semiconductor Fab  
 The Transmission of Vibration through Gloves to the Hand and to the  
 Fingers: Effects of Material Dynamic Stiffness Chapter 3: Structural  
 Health Monitoring and Detection; A Review on the Self-Energize  
 Structural Health Monitoring (SHM) in Vertical Axis Wind Turbine  
 (VAWT) System; An SHM View of a CFD Model of Lillgrund Wind Farm;  
 Envelope Analysis Using the Teager-Kaiser Energy Operator for  
 Condition Monitoring of a Wind Turbine Bearing; Identification of  
 Corrosion on a Hollow Tube Using Vibration; Vibration Gear Fault  
 Diagnostics Technique Using Wavelet Support Vector Machine  
 Implementing Neural Network for Damage Severity Identification of  
 Natural Kenaf Fibre Composites

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#### Sommario/riassunto

Collection of selected, peer reviewed papers from the International  
 Conference on Advances in Mechanical and Manufacturing Engineering  
 (ICAM2E 2013), November 25-28, 2013, Kuala Lumpur, Malaysia. The  
 131 papers are grouped as follows: Chapter 1: Vehicles Engineering,  
 Chapter 2: Sound and Vibration, Chapter 3: Structural Health  
 Monitoring and Detection, Chapter 4: Applied Thermodynamics and  
 Fluid Engineering, Chapter 5: Applied Materials Science, Chapter 6:  
 Technologies of Materials Processing, Chapter 7: Intelligent  
 Manufacturing, Chapter 8: Industrial Engineering

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