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Altri autori (Persone)	SuDaizhong ZhangQingbin <1964-> ZhuShifan <1963->
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advanced Design and Manufacture III; Preface and Review Panel Members; Table of Contents; Frequent Pattern Mining in a Design Supporting System ; A Kinematic Model Used to Customize Design of Manual Wheelchair; High Reliability Pb-Free Printed Circuit Board Assembly; Research of the Joint Workspaces and Kinematic Efficiency of Man-Machine Systems of Bicycles; Novel Touch-Trigger Probe for Coordinate Measuring Machines; On the Development of Complex Products Containing Sub-Assemblies; Applying TRIZ Methodology to Assist Product Improvement - Take Folding Bicycle as an Example Design and Analysis of a Tapered Deployable MastA Dynamic Fluid Property Model for the Engineering Design of Hydraulic Dampers; Design of Protective Device against Welding Arc and Smoke; Study on Conveyor AMESim Model and Motor Starting Interval; A Dynamic Positioning Method for Single Point Mooring System of a Catamaran; Numerical Analysis of Shock Responses for a Marine Gearbox System; Simulation on the Biomass Direct-Fired Stirling Engine; Research on Tool Flow Deadlock Based on Petri Net and Graph Theory; Viscosity

Influence Research on Load Capacity of Heavy Hydrostatic Bearing
Study on Bolted Joints of U Frame of Simulation TurntablePower
Transmission of Two Coupled Rectangular Plates with Elastically
Restrained Coupling Edge ; Multi-Objective Optimization Design for
Cutting Head of Roadheader; Lightweight Design for Hydraulic Support;
Research on the Optimization of Engineering Drawings' Adjusting
Technology Based on Parametric Variant Design; Rolling Force Research
on Cogging Rolling of H-Beam; A Product Family Genealogy Based
Configuration Model; Bionic Research of Turtle Hydrofoil Propulsion
Dynamic Response of an Overhead Crane Beam Due to a Moving Mass
Using Moving Finite Element ApproximationComputer Modeling and
Simulation of Spur Involute Gears by Generating Method; Simulating the
Mechanical and Structural Properties of UltraSTEELTM Dimpled Sheet;
Design and Simulation of a Femoral Component Peg in Total Knee
Replacement; Wire Strand and IWRC Modeling and Contact Analysis
Using Finite Elements; Product Based Material Testing for Hyperelastic
Suspension Jounce Bumper Design with FEA; Design and Optimization
of NC Machining Technology for a Kind of Boring Axle
Path Planning for Vehicle with Constraint on Turning Radius among
ObstaclesAutomotive Crashworthiness Optimization Using Energy Flow
Based Variable Screening; Rapid Forming of Hydroxyapatite-Silica
Ceramics ; Design for Assembly in Concurrent Engineering - A Case
Study on its Application: Glass Block Holder and Glass Mold ; Enhancing
the Ideality of Innovation by AD/TOC/TRIZ; Effects of Temperature and
Grain Refinement on Micro Simple Upsetting of Copper; Influences of
Strain Rate on Copper Nanowire in Tension
Mathematical Modeling for the Prediction of Fuel Properties of Biodiesel
from their FAME Composition

Sommario/riassunto

This volume comprises a prestigious collection of refereed papers selected from those submitted to the 3rd International Conference on Advanced Design and Manufacture (ADM2010), held of the 8th to the 10th of September, 2010, in Nottingham, UK. This conference was hosted by Nottingham Trent University and was jointly organized by Nottingham Trent University, Harbin Engineering University and the Harbin Institute of Technology. The major topics covered by the conference themes, as reflected by the present papers, included: Product/industrial/engineering design, CAD/CAM/CAE, Computer simulation,
