

1. Record Nr.	UNINA9910789105503321
Titolo	Engineering solutions for manufacturing processes IV : selected, peer reviewed papers from the 2013 4th International Conference on Advances in Materials and Manufacturing (ICAMMP 2013), 18-19 December, 2013, Kunming, China // edited by Zhengyi Jiang, Xianghua Liu and Jingtao Han
Pubbl/distr/stampa	Zurich, Switzerland : , : TTP, , 2014 ©2014
ISBN	3-03826-396-6
Descrizione fisica	1 online resource (1763 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volumes 889 - 890
Disciplina	670.42
Soggetti	Manufacturing processes Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Engineering Solutions for Manufacturing Processes IV; Preface and Conference Organization; Table of Contents; Chapter 1: Computer-Aided Design and Research in Mechanical Engineering; Finite Element Modeling for the Locomotive Traction Gears; The Modeling Design of Plastic Ashtray Technology and Rapid Prototyping Technology Based on Reverse Engineering; Modeling and Rapid Prototyping for Toy Aircraft Based on Pro/Engineering; 3D Parametric Design and Performance Test of Precision Cam Divider; 3D Geometrical Details Transfer with Cubic B-Spline Wavelet Biarc Approximations Tool-Path Generation for Polyhedral Models Visual C++-Based Algorithm Research and Software Development for Cold-Formed Thin-Wall Steel Sectional Properties of Arbitrary Section; Modeling, Validation and Optimization of Car Side Impact; Dynamic Simulation Research on the Sorting Machine Induction Based on the Virtual Prototyping; The CAE Analysis for Thin-Walled Plastic Parts Vacuum Casting; Finite Element Analysis of Static and Dynamic Characteristics of High-Speed Horizontal Machining Center Bed; Modal Analysis of Oversize Ball Mill Tube Based on ANSYS ANSYS-Based Finite Element Analysis on TBM Disc Cutter The

Parameterization Design of Standard Parts Based on UG Part Families and Excel Database; Research on Cutting Force Simulation for Francis Hydro Turbine's Blade Based on VERICUT; Cone Crusher Simulation Based on PFC3D; The Optimization and Improvement of Truck Brake Caliper Bracket Based on the Finite Element Method; Numerical Simulation on Guide Plates in Coal-Fired Power Plant Flue Pipe Bend with Inner Supports; Based on ANSYS Workbench Gantry Structure Improvement

Multi-Objective Optimization of the FOFAS Based on the Workbench/Exploration The Optimization Design of Wind Turbine Gearbox Based on Improved Genetic Algorithm and Feasibility Analysis; Reverse Design from Virtual Manufacturing; Quadruple-Arc Gear Tooth Profile Parameterize Optimization Based on ANSYS; Application of Advertising Based on Computer Aided Visual Design; Finite Element Analysis and Multi-Objective Optimization of the Precision Horizontal Machining Center Bed; Calculation of the Scattering Coefficient of Large Scale Periodic Structure

FEA and Contrast Test of Slender Shaft Turning A Study of the Interfacial Pressure in Cable Joint Based on Finite Element Method; Modal Analysis of Concrete Pump Truck Boom; Analysis of a Missile's Initial Disturbance; Investigating the Performance of Hyperelastic Constitutive Models in Predicting Dynamic Characteristics of Elastomeric Components; Sound Pressure Distribution and Acoustic Parameters Estimation by Simulation; The Effect of Thrust Eccentric and Erection Cylinder Anchor Position on the Initial Disturbances Simulation and Analysis of Attitude of Non-Spherical Particles in Drum Granulation

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 4 th International Conference on Advances in Materials and Manufacturing (ICAMMP 2013), 18-19 December, 2013, Kunming, China. The 342 papers are grouped as follows: Chapter 1: Computer-Aided Design and Research in Mechanical Engineering, Chapter 2: Research and Design Solutions in Machinery Industry, Chapter 3: Mathematical Modeling and Optimization in Engineering Sciences, Chapter 4: Technology of Measurement and Signal Processing, Chapter 5: Sensor Technology, Chapter 6: Microelectronics, Circuit Technology and Embedded Systems, Chap
