Record Nr. UNINA9910786764803321 **Titolo** Dynamics of machines and mechanisms, industrial research: selected, peer reviewed papers from the 2014 international mechanical engineering congress (IMEC 2014), June 13-15, 2014, Tamil Nadu, India / / edited by K. R. Balasubramanian, S. P. Sivapirakasam and R. Anand Switzerland:,: Trans Tech Publications,, 2014 Pubbl/distr/stampa Switzerland:,: Trans Tech Publications,, [date of distribution not identified] ©2014 **ISBN** 3-03826-546-2 Descrizione fisica 1 online resource (2786 p.) Applied Mechanics and Materials, , 1660-9336; ; Volumes 592-594 Collana Disciplina 621.811 Soggetti Machinery, Dynamics of - Data processing Machinery, Dynamics of - Testing - Data processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes indexes. Nota di contenuto Dynamics of Machines and Mechanisms, Industrial Research; Preface and Organizing Committee; Table of Contents; Chapter 1: Advanced Material and Manufacturing Processes; A Finite Element Simulation Study on Effects of Variation in Machining and Geometrical Parameters in Turning: A Fuzzy Logic Based Model to Predict Weld Width - A Case Study of Hard Facing Process Using MIG Welding on Dual Plate Check Valve; A Study of Preparation and Characterization of Nano-Sized SiC Powder Using High Energy Ball Milling A Study on Edge Milling Operation of NEMA G11 GFRP Composites Based on Grey-Taguchi MethodA Study on White Layer Thickness and Surface Crack Density in Rotary EDM of RENE80 Nickel Superalloy; Aerostatic Spherical Bearing Manufacturing Methods and Criticalities -An Approach; An Analysis on Bead Characteristics in Material Deposition by PTAW Process; An Analysis on Temperature & Surface Roughness during End Milling of Ti-6Al-4V Alloy; An Assessment on Friction Stir Welding of High Melting Temperature Materials

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## Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014
International Mechanical Engineering Congress (IMEC-2014), June 1315, 2014, Tamil Nadu, India. The 501 papers are grouped as follows:
Chapter 1: Advanced Material and Manufacturing Processes, Chapter 2:
Nanomaterials and Nanotechnology in Machinery, Chapter 3: Dynamics and Applied Mechanics, Chapter 4: Tribology, Chapter 5:
Thermodynamics and Thermal Engineering, Fuel and Diesel, Chapter 6:
Applied Fluids Mechanics in Design of Machines and Equipment,
Chapter 7: Vibration and Control, Chapter 8: Drive Systems of Machines, Mechatronics