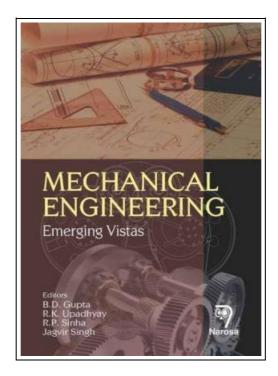
# Mechanical Engineering: Emerging Vistas



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Narosa Publishing House, 2011. Hardcover. Book Condition: New. MECHANICAL ENGINEERING: Emerging Vistas discusses the recent developments in the ever-expanding areas of Mechanical Engineering viz. Material and Composites, Advanced Manufacturing Process, Computer Aided Design and Analysis, Ergonomics, Alternative Energy Sources and Thermal Engineering are opening up new vistas of venture and exploration. The studies included in this volume brew with Micro-Electro Mechanical Systems, Aerospace Engineering, Bio-Engineering and Energy which are multidisciplinary fields that hold enormous opportunities for Mechanical Engineers. Finite Element Methods, Human Body Vibration, Soft Computing Techniques like Fuzzy Decision Theory; Artificial Neural Network etc. make this volume a good exposition of knowledge. It is hoped that this will help young research and academics to adopt a holistic and sustainable approach to the development of modern world of which we are an integral part. Table of Contents Preface / Experimental Study of Friction Stir Processing (FSP) and its Effect on Microstructure and Hardness of Al6061 Plates / Rapid prototyping technologies, applicatons and part deposition planning / Performance evaluation of domestic refrigertor using different refrigerants / Appreciation of various technologies for the development of parachute system / Modeling of equal channel angular pressing (ECAP) with finite element method / Ant colony optimization for grouping problem of CMS under FMS / Deformation mechanism of thin target on normal impact of the blunt nosed cylindrical projectile / Aerodynamic analysis of combat search and rescue (CSAR) basket using CFD / Finite element modeling of cold rolling process / Three variable fuzzy time series model for predicting energy demand in India / Virtual prototyping of 2000 m3 aerostat / Finite element analysis of excavator arm links / Analysis of thin-walled structured beams using LS-DYNA and FE modeling techniques / Factors affecting wave propagation speed in hyper concentrated slurry flow carrying solid particles / Strategic planning...



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