

Journal of The Institution of Engineers (India): Series C

Volume 97 · Issue 1 · January–March 2016

ORIGINAL CONTRIBUTIONS

Development and Experimental Study of Surface-Electrical Discharge Diamond Grinding of Al-10 wt%SiC Composite

S.S. Agrawal · V. Yadava 1

Effect of Elasticity on Capillary Compensated Flexible Multi-recess Hydrostatic Journal Bearing Operating with Micropolar Lubricant

S. Verma · V. Kumar · K.D. Gupta 11

Experimental Investigation of the Damping Behavior of the Particle Damping in the Transient Vibrations

S.P. Chavan · A.K. Kale · F.A. Mulla 25

Kinematic Modeling and Function Generation for Non-linear Curves Using 5R Double Arm Parallel Manipulator

P.K. Kamaliya · Y.K.D. Patel 33

Mechanical and Tribological Behavior of ABS/TiO₂ Polymer Composites and Optimization of Tribological Properties Using Grey Relational Analysis

J. Sudeepan · K. Kumar · T.K. Barman · P. Sahoo 41

Nanometric Finishing on Biomedical Implants by Abrasive Flow Finishing

K.T. Subramanian · N. Balashanmugam · P.V. Shashi Kumar 55

Optimizing Multi Characteristics in Machining of AISI 4340 Steel Using Taguchi's Approach and Utility Concept

M.K. Gupta · P.K. Sood 63

Study of the Productivity and Surface Quality of Hybrid EDM

S.H. Wankhade · S.B. Sharma 71

Surface Roughness Prediction Model using Zirconia Toughened Alumina (ZTA) Turning Inserts: Taguchi Method and Regression Analysis

N. Mandal · B. Doloi · B. Mondal 77

Three Dimensional Parametric Analyses of Stress Concentration Factor and Its Mitigation in Isotropic and Orthotropic Plate with Central Circular Hole Under Axial In-Plane Loading

S. Nagpal · N.K. Jain · S. Sanyal 85

CASE STUDIES

An Application of Six Sigma to Reduce Supplier Quality Cost

L.M. Gaikwad · S.N. Teli · V.S. Majali · U.M. Bhushi 93

Application of Closed Loop Optimal Guidance for a Constant Thrust Space Vehicle

M.R. Darestani · M.A. Mahale 109

ARTICLE OF PROFESSIONAL INTEREST

Tensile Strength and Hardness Correlations with Microscopy in Friction welded Aluminium to Copper

R. Satish · V.S. Rao · D. Ananthapadmanaban · B. Ravi 121

Further articles can be found at link.springer.com

Instructions for Authors for *J. Inst. Eng. India Ser. C* are available at <http://www.springer.com/40032>