

Indian Journal of Engineering & Materials Sciences

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

VOLUME 24
CODEN : IEMSEW

NUMBER 3

JUNE 2017
ISSN : 0971-4588

CONTENTS

Experimental investigation of flank wear and surface roughness during hard turning of AISI H11 steel with CBN tools K B Rathod & D I Lalwani	171
Prediction of the surface roughness and wheel wear of modern ceramic material (Al_2O_3) during grinding using multiple regression analysis model P Kanakarajan, S Sundaram, A Kumaravel, R Rajasekar & R Venkatachalam	182
Effect of fiber orientation and ply stacking sequence on buckling behaviour of basalt-carbon hybrid composite laminates S B Dhuban, S Karuppanan, A N Mengal & S S Patil	187
Development and performance analysis of fluoroelastomer-graphite nanoplatelet nanocomposites Grace Moni, Anoop P, Jerin Thomas & Soney C George	194
Investigations on effect of direction of welding on distortion in combined butt and filled joint using finite element analysis S Kumanan & S J Vaghela	201
Characterisation of residual stresses in dissimilar friction stir welded aluminium and copper E T Akinlabi, I Dinaharan & S A Akinlabi	207
Effect of welding parameters on microstructure and mechanical properties of aluminum alloy AA6082-T6 friction stir spot welds H Aydin, O Tuncel, Y Umur, M Tutar & A Bayram	215
Optimized plastic injection molding process and minimized the warpage and volume shrinkage by response surface methodology with genetic algorithm and firefly algorithm techniques Supattarachai Sudsawat & Wipoo Sriseubsai	228
A novel approach to use internally cooled cutting tools in dry metal cutting Yahya Isik, Abdil Kus, Salih Coşkun, Kadir Özdemir & M Cemal Cakir	239