

# **CONTENTS:**

## **ENGINEERING MATERIALS**

<b>Application of artificial neural network for predicting fatigue crack propagation life of aluminum alloys .....</b>	<b>133</b>
J.R. Mohanty, B.B. Verma, D.R.K. Parhi, P.K. Ray (India)	

## **MANUFACTURING AND PROCESSING OF ENGINEERING MATERIALS**

<b>The determination of the thickness of the composite layer .....</b>	<b>139</b>
C. Baron, D. Bartocha, J. Szajnar (Poland)	
<b>Particle swarm intelligence based optimisation of high speed end-milling .....</b>	<b>148</b>
F. Cus, U. Zuperl (Slovenia)	
<b>Hegde's instability mechanics for the prediction of forming limit in sheet metal forming .....</b>	<b>155</b>
G.S. Hegde, J.R. Nataraj, R. Sridhar (India)	
<b>EDM process optimisation via predicting a controller model .....</b>	<b>161</b>
R.A. Mahdavinejad (Iran)	

## **ENGINEERING MATERIALS PROPERTIES**

<b>Interface driven optimisation of springback in stretch bending of autobody panels .....</b>	<b>168</b>
G.S. Hegde, J. Shivaprasad, R. Sridhar (India)	

## **METHODS OF ANALYSIS AND MODELLING**

<b>Modelling, analysis and optimisation of weld bead parameters of nickel based overlay deposited by plasma transferred arc surfacing .....</b>	<b>174</b>
K. Siva, N. Murugan, V.P. Raghupathy (India)	
<b>The computer simulation of internal stresses on the PVD coatings .....</b>	<b>183</b>
A. Śliwa, L.A. Dobrzański, W. Kwaśny, W. Sitek (Poland)	

## **Indexes**

<b>Author index .....</b>	<b>189</b>
<b>Keywords index .....</b>	<b>190</b>