

The IUP Journal of MECHANICAL ENGINEERING

31/8/26
SB



IUP Publications
(A Division of The ICFAI Society)
www.iupindia.in



The IUP Journal of MECHANICAL ENGINEERING

Vol. 19 Issue 3

July-September 2026

Contents

Focus

5-6

Investigation and Optimization of Kerf Width and Surface Roughness in AZ31 Magnesium Alloy by Wire Electric Discharge Machining

7-18

T Akashyakumar, D Gowtham, V Jeevagan, S Santhosh and S Saravanan

Box-Shaped Deep Drawing of Annealed AZ31 Magnesium Alloy at High Temperatures

19-30

C Jai Shiva Rao and K Prasanna Lakshmi

Estimation of Ploughing Force with the Aid of Experimentation and Slip Line Field Theory

31-38

Ashutosh Gayen, Biswajit Das, Biswajit Debneth and Arup Kumar Biswas

Green Sand Molding Process: Challenges and Data-Driven Optimization Strategies

39-50

*Manik Sadashiv Sonawane, Jayamala Kumar Patil
and Vinay Sampatrao Mandlik*

Emerging Trends and Challenges in Facility Layout Planning: A Comprehensive Review

51-79

Nazim Khan and Kamal Deep

