

LIST OF PUBLICATIONS

Faculty: Dr Amit Kumar

Department of Mechanical Engineering

JOURNAL PUBLICATIONS

Maximum Bulge Height and Weld Line Displacement in Hydroforming of Tailor Welded Blanks - **A. Kumar**, V. Gautam, and D. Ravi Kumar, *Journal of Manufacturing Science and Engineering*, 140, 1-14 (2018)

Determination of Residual Stresses in Biaxial Stretching of Tailor Welded Blanks- **A. Kumar**, D. Ravi Kumar, and V. Gautam, *IOP Conference Series: Materials Science and Engineering*, 651(1), 1-8 (2019)

Formability Predictions of Tailor Welded Blanks in Hydroforming using Flow Curves from Biaxial Tensile Tests- **A. Kumar**, and D. Ravi Kumar, *Journal of Materials: Design and Applications*, 235(4), 853-867 (2020)

Characterization of Residual Stresses in Conventional Forming and Hydroforming of Tailor Welded Blanks- **A. Kumar**, V. Gautam, D. Ravi Kumar, and K. Hariharan, *Journal of Materials Engineering and Performance*, 1-16 (2022).

Numerical Investigation of Crashworthiness Performance of Thin-Walled Foam Filled Tubes- M. Basri, **A. Kumar**, D. K. Dubey, A. Chawla, and S. Mukherjee. (Submitted- Under Review)

INTERNATIONAL CONFERENCE PAPERS

Effect of Cell Geometry on the Out of Plane Response of Aluminium Honeycomb using Finite Element Method – M. Basri, **A. Kumar**, D. K. Dubey, A. Chawla and S. Mukherjee, *Composite Materials for Extreme Loading (Springer Nature)*, https://doi.org/10.1007/978-981-16-4138-1_22.

Numerical Simulation of V-Shaped Composite Plate Subjected to Blast Loading–S. K. Behera, V. Kumar, **A. Kumar**, D. K. Dubey, and A. Chawla, *Composite Materials for Extreme Loading (Springer Nature)*, https://doi.org/10.1007/978-981-16-4138-1_32.

CONFERENCE PAPERS

Effect of Thickness Ratio on Maximum Bulge Height and Peak Pressure in Hydroforming of Tailor Welded Blanks– **A. Kumar** and D. Ravi Kumar, *National Conference on Sheet Metal Forming (SMFRA)*, IIT Bombay, 2016.