

Department of Mechanical Engineering

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Research Publications:

International Journals:

- Ranjit Singh, Jatinder Madan, “A computer-aided system for multi-gate gating system design for die-casting dies ” *International Journal of Advanced Manufacturing Technology*, <https://doi.org/10.1007/s00170-018-2980-z>.
- Sunil Kumar, Ranjit Singh, Vijay Kumar, Vinod Kumar “Automatic Determination Of Parting Line And Number Of Cavities In Die Casting Die”, *International Journal Of Mechanical And Production Engineering (IJMPE)*, Vol. 2 Issue 1, Jan. 2014, pp. 13-17, DOI:IJMPE-DOI-469.
- Ranjit Singh, Chandan Deep Singh, Simranjit Singh Sidhu, “Development of an automated system for sustainability analysis of die-casting part at the design stage”, *International Journal for Multi Disciplinary Engineering and Business Management*, Vol.1, Issue 1,December 2013, pp. 21-27.
- Ranjit Singh, Jatinder Madan, Rajesh Kumar, “Automated identification of complex undercut features for side-core design for die-casting parts”, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, first published on January 9, 2014 as doi:10.1177/0954405413514744e. (1.445)
- Ranjit Singh, Jatinder Madan, “Systematic approach for automated determination of parting line for die-cast parts" *Journal of Robotics and Computer Integrated Manufacturing 2013*, Vol. 29, No. 5, October 2013, pp. 346–366.(Impact Factor: 3.464).
- Ranjit Singh, Jatinder Madan and Amrik Singh, “Optimal selection of parting line for die-casting”, *International Journal of Applied Engineering Research*, 2010, Vol. 5 No. 17, pp. 2899-2906.

International Conference:

- R. Singh, J. Madan, and R. Kumar, “A Systematic Approach for Computer-Aided Gating-System Design for Die Casting Dies” Proceedings of the ASME 2016 International Manufacturing Science and Engineering Conference MSEC2016 June 27- July 1, 2016, Blacksburg, Virginia, USA.
- Ranjit Singh and Jatinder Madan, “Computer-aided Runner and Gating System Design from Die-Casting Part Model”, 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), organized by Department of Mechanical Engineering, IIT Guwahati, Guwahati, India, December 12-14, 2014, pp 163-1 to 163-6.
- A.S.Johal, Kishore Khanna, Ranjit Singh, “An automated system to determine gate parameters for die-casting dies”, proceedings of 3rd International Conference on Production and Industrial Engineering (CPIE-2013), organized by department of Industrial and Production Engineering, NIT, Jalandhar, 29 – 31 March, 2013, pp. 176-184.
- Ranjit Singh, Jatinder Madan and Rajesh Kumar, “Automated Identification of Complex Undercut Features for Side-core Design for Die-casting Parts”, proceedings of 4th International & 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2012), organized by Jadavpur University, Kolkata, India December 14th -16th2012, pp 9-15.
- Karamjit Singh, Prince Pal Singh and Ranjit Singh, “A Study on Life Cycle Inventory Analysis of the Casting Process”, proceedings of International Conference on Advancements in Engineering and Technology organized by Bhai Gurdas Institute of Engineering & Technology, Sangrur, Punjab, India (October 12-13, 2012), pp.100-105.

Books published:

- Chandandeep Singh, Simranjit Singh Sidhu, and Ranjit Singh, “Automated system for sustainability analysis of Die casting”,LAP Lambert Academic Publishing, Germany, 2016.
- Ranjit Singh, rohit Kumar, and S. S. Jolly, “A computer-aided approach for gating system design for multi-cavity dies” GRIN Publishing, Germany, 2017.
- Ranjit Singh , “Automatic determination of partingline for die-casting parts” LAP Lambert Academic Publishing, Germany, 2017.
- Ranjit Singh, Gaurav Sachdeva and Sunil Kumar, “Computer Aided Selection of Optimal Parting Line For Die-Design”, LAP Lambert Academic Publishing, Germany, 2017.