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Employment

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1 Aug 2023 → present

Research outputs

Evolution of real area of contact due to combined normal load and sub-surface straining in sheet metal
Shisode, M., Hazrati, J., Mishra, T., de Rooij, M. & van den Boogaard, T., 18 Aug 2021, In: Friction. 9, p. 840-855 16 p.

Mixed lubrication friction model including surface texture effects for sheet metal forming
Shisode, M. P., Hazrati Marangalou, J., Mishra, T., de Rooij, M. & van den Boogaard, T., 1 May 2021, In: Journal of materials processing technology. 291, 16 p., 117035.

Study of wear particles formation at single asperity contact: An experimental and numerical approach
Mekicha, M. A., Rooij, M. B. D., Mishra, T., Matthews, D. T. A., Jacobs, L. & Schipper, D. J., 15 Apr 2021, In: Wear. 470-471, 203644.

The effect of asperity geometry on the wear behaviour in sliding of an elliptical asperity
Mishra, T., de Rooij, M. & Schipper, D. J., 15 Apr 2021, In: Wear. 470-471, 203615.

Modeling boundary friction of coated sheets in sheet metal forming
Shisode, M., Hazrati, J., Mishra, T., de Rooij, M., ten Horn, C., van Beeck, J. & van den Boogaard, T., Jan 2021, In: Tribology international. 153, 106554.

Semi-analytical contact model to determine the flattening behavior of coated sheets under normal load
Shisode, M. P., Hazrati, J., Mishra, T., de Rooij, M. B. & van den Boogaard, A. H., Jun 2020, In: Tribology international. 146, 12 p., 106182.

Analytical, numerical and experimental studies on ploughing behaviour in soft metallic coatings
Mishra, T., de Rooij, M., Shisode, M., Hazrati Marangalou, J. & Schipper, D. J., 15 May 2020, In: Wear. 448-449, 203219.

A material point method based ploughing model to study the effect of asperity geometry on the ploughing behaviour of an elliptical asperity
Mishra, T., de Rooij, M., Shisode, M., Hazrati, J. & Schipper, D. J., 1 Feb 2020, In: Tribology international. 142, 106017.

Characterization of yield criteria for zinc coated steel sheets using nano-indentation with knoop indenter
Mishra, T., de Rooij, M., Shisode, M., Hazrati, J. & Schipper, D. J., 15 Jan 2020, In: Surface and coatings technology. 381, 125110.

Modeling mixed lubrication friction for sheet metal forming applications
Shisode, M. P., Hazrati, J., Mishra, T., de Rooij, M. & van den Boogaard, T., 1 Jan 2020, In: Procedia manufacturing. 47, p. 586-590 5 p.

Modelling ploughing by an elliptical asperity through a zinc coated steel sheet: with application to modelling friction in deep-drawing
Mishra, T., 4 Dec 2019, Enschede: University of Twente. 341 p.

Characterization of interfacial shear strength and its effect on ploughing behaviour in single-asperity sliding
Mishra, T., de Rooij, M., Shisode, M., Hazrati, J. & Schipper, D. J., 15 Oct 2019, In: Wear. 436-437, 203042.

An analytical model to study the effect of asperity geometry on forces in ploughing by an elliptical asperity
Mishra, T., de Rooij, M., Shisode, M., Hazrati, J. & Schipper, D. J., 1 Sept 2019, In: Tribology international. 137, p. 405-419 15 p.

The effects of contact configuration and coating morphology on the tribological behaviour of tetrahedral amorphous diamond-like carbon (ta-C DLC) coatings under boundary lubrication
Mishra, T., Nordin, B., Svanbäck, D., Tervakangas, S. & Prakash, B., 3 Apr 2019, In: Tribology - Materials, Surfaces and Interfaces. 13, 2, p. 120-129 10 p.

Modelling of ploughing in a single-asperity sliding contact using material point method

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Characterization of Anisotropic Yield Criteria Using an Indentation Based Technique for Steel Sheets

Mishra, T., de Rooij, M., Shisode, M., Hazrati, J. & Schipper, D., 2019.

Multi-scale Friction Modeling of Coated Steels for Sheet Metal Forming Applications

Shisode, M., Hazrati, J., Mishra, T., de Rooij, M. & van den Boogaard, T., 2019.

Multi-scale contact modeling of coated steels for sheet metal forming applications

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