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Mechanistic modelling for predicting cutting forces in machining considering effect of tool nose radius on chip formation and tool wear land

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Highlights

- The study proposes a developed model based on three dimensional cutting operations.
- Force model is based upon chip formation, wornout cutting tool & tool edge radius.
- Model involves equivalent cutting edge geometry for predicting cutting tool angle.
- Output of the model is analysed with the results of other developed models.

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