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A multi-field analysis of hydrodynamic lubrication in high speed rolling of metal strips

Chuhan Wu , Liangchi Zhang , Peilei Qu , Shanqing Li , Zhenglian Jiang

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**highlights**

- A multi-field analysis of hydrodynamic lubrication in high speed cold rolling
- A robust method for solving the Reynolds equation
- A more complete treatment of hydrodynamic lubrication in rolling
- It overcomes the coupled interaction between the lubricant and the strip

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