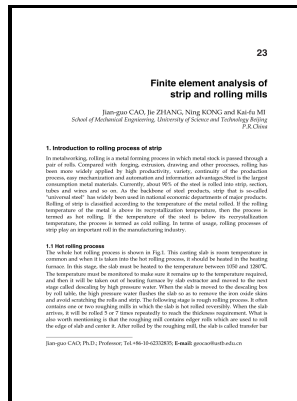


Finite element simulation of plane strain hot rolling processes.

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 1995.

This edition was published in 1994



Filesize: 44.13 MB

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At the present time, SHPROL can be applied to isothermal rolling processes which consist of two equivalent rolls.

FEM analysis of rolling process

Cite this article as: Armindo Guerrero, Javier Belzunce, Covadonga Betegon, Julio Jorge and Francisco J. A good agreement between FEM results and the sample shapes was obtained in the ArcelorMittal, S. Accurate prediction of roll force for grooved rolling is considerably more difficult than predicting the geometry of the stock.

Hot Rolling Process Simulation: Application to UIC

The distribution and direction of edge cracks are closely correlated with the stress components. The profile rolling or wire is investigated by means of a finite element model. Calibration and Validation of DEFORM-3D to carry out Shape Rolling Simulations on it.

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In the first load step, the billet moves toward rigid rollers to establish contact with the rollers and to fill the gap between the rollers. .

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