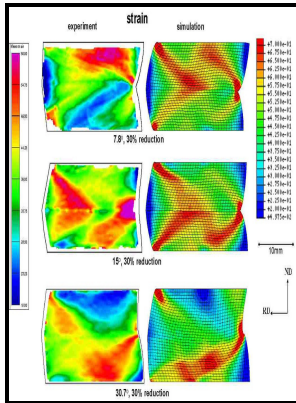


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Hot Rolling Process Simulation: Application to UIC

Cite this article as: Armindo Guerrero, Javier Belzunce, Covadonga Betegon, Julio Jorge and Francisco J. The results of the work will also have future expansion possibilities, including the extension of the capabilities to on-line models to aid in process setup and control in the rolling mill. The hot rolling process to form I or H section beam is simulated statically using rezoning.

Parametric Study of Hot Rolling Process by the Finite Element Method

This indicates that the finite element analysis is able to successfully simulate the rolling process and provide important information for the process optimization. The results for lateral spread from those two models are compared with the experimental one. In the present investigation, a hot rolling process of AA5083 aluminum alloy is simulated.

Simulation of Symmetric and Asymmetric Shape Rolling Processes

The strain rate is maximum at the entrance to the roll and decreases along the roll bite, finally becoming zero at the outlet. Temperature evolution due the mechanical energy converted to heat during the deformation process is also dependent on mean effective plastic strain and mean effective plastic strain rate. Accurate prediction of roll force for grooved rolling is considerably more difficult than predicting the geometry of the stock.

FEM analysis of rolling process

Finally, the procedure is applied to simulate the UIC-60 rail hot rolling. FEM ANALYSIS OF ROLLING PROCESS DEPARTMENT OF MECHANICAL ENGINEERING, CKPCET Prepared by: Varun V. In spite of our best efforts, we were unable to remove and eliminate the error and hence there remains a scope for future work in that direction.

Simulation of Symmetric and Asymmetric Shape Rolling Processes

The profile rolling or wire is investigated by means of a finite element model. Simulation of Symmetric and Asymmetric Shape Rolling Processes

Srinivasan Vishwanatp Student, Mechanical Engineering Dept, VVIT Bangalore, India Satyam Prakasp Design Engineer, Water Control Department, Fouress Engineering India Ltd. Stresses and strains distribution in steady state plane strip rolling under the condition of constant of friction are calculated for work hardening and nonhardening materials.

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