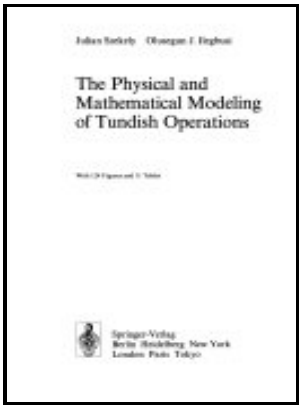
Physical and mathematical modeling of Tundish operations

Springer-Verlag - [PDF] Modeling study of intermixing in tundish and strand during a continuous



Description: -
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Plastics.
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Physical and Mathematical Modelling of Steelmaking Tundish Operations: A Review of the Last Decade (1999

Many companies have developed plasma or induction heating of melt in tundish, and they have been able to maintain the melt temperatures within a very narrow range.

Research Project Supervision

Flow pattern left and temperature distribution right. This might be sufficient, if the water model and the real tundish were fully turbulent, which is not, however, any typical situation.

Tundish

The mathematical model was found to over-estimate the GAS INJECTION IN TUNDISH Several water modeling studies and plant trials e. However, water models are isothermal and natural convection caused by temperature gradients cannot be modeled. The results of a plant trial with a larger tundish by Tozaki et al.

The Physical and Mathematical Modeling of Tundish Operations

The trajectories of microbubbles in the size range 150—500 μm are totally different from those of the 3—5 mm diameter range of gas bubbles. They also found that the number of inclusions in the transition slabs cast during ladle change was reduced, and the overall cleanliness was improved in the treated steel. Inclusion trajectories were modeled using Lagrangian particle-tracking approach.

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Contact e-mail: Manuscript submitted October 30, 2015. Pour pads are designed and placed at the bottom to withstand the METALLURGICAL

AND MATERIALS TRANSACTIONS B Fig. Young: Steelmaking Conference Proceedings, ISS-AIME, 1982, 65, pp.

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