

Continuous caster mould is the last and important stage in the steelmaking process where inclusions can be either generated or removed. With increasing casting speed using conventional immersion nozzles critical problems, such as unstable bulk mould flow, have been noticed. Mould flux entrapment due to vortex and shearing action from the oscillating surface waves have become of particular concern. It is, therefore, necessary to have a calm inlet flow at the entrance of the mould. Recently, it has been acknowledged that a swirl blade placed at the upstream end of the nozzle effectively resolves these problems. Therefore, to increase our knowledge on swirling flow fundamental mathematical models of a billet mould equipped with a swirl blade in the nozzle have been developed. The model is used to study the effects of changing nozzle tilt angle and mould aspect ratio on heat and mass transfer in the round and square moulds. Data from water model experiments are used to verify the mathematical model predictions. A fairly good agreement between physical modeling data and predictions was found, which ensured that the numerical models are reliable.

Ancestral Roots and Descendants of Charles Robert Looney and LaVanchie Margaret Cool and the Families of Ackley, Bradford, Burbank, Cool, Crow, ... Mason, Partridge, Peck, Wark, and Whiting, The Plant Disease Bulletin, Vol. 3: Issued by the Plant Disease Survey (Classic Reprint), Breakthrough Italian: The Quick and Easy Way to Speak and Understand Italian (Book & 4 Cassettes), Everymans Dictionary of First Names (Everymans Reference Library), Envision in Depth: Reading, Writing, and Researching Arguments Plus MyWritingLab with eText -- Access Card Package (3rd Edition), Equilibrium Thermodynamics for Engineers and Scientists/Part 2, igitur eigo no goi 3000 go (Japanese Edition), Grandmas Saturday Soup in Somali and English (Multicultural Settings) (English and Somali Edition),

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