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Mold Fluid Flow: Practical

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Effect of Stopper-Rod Misalignment on Asymmetric Flow and Vortex Formation in Steel Slab Casting

Fluid Flow: Model Evaluation and Improvement

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Evaluation of turbulence models in MHD channel and square duct flows
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Direct Numerical Simulations of Magnetic Field Effects on Turbulent Flow in a Square Duct
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Heat Transfer

A Novel Steady-state Technique for Measuring the Heat Extracted by
Secondary Cooling Sprays
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Real-Time Model-Based Spray-Cooling Control System for Steel Continuous Casting (revised)
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User-friendly Interface Design and Development for Continuous-Casting Model CON1D
H. Jasti (MS Thesis)
CCC Report 201004

Precipitate Formation

Equilibrium Model of Precipitation in Microalloyed Steels
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Microalloy Precipitation in Hot Charged Slabs

Particle-Size-Grouping Model of Precipitation Kinetics in Microalloyed Steels
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Stress and Cracking

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Computational Modeling

**Multiphysics Model of Metal Solidification on the Continuum Level**
S. Koric, L. Hibbeler, R. Liu, and B. G. Thomas
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Related Processes

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Reprints

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**Industry Implementation of Mathematical Models: Examples in Steel Processing; Howe Memorial Lecture, 2009**
B. G. Thomas
Iron and Steel Technology, July, 2010, pp. 70-87

**Modeling of Hot Tearing and Other Defects in Casting Processes** (reprint)
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