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Optimization Of Continuous Casting Process

This paper describes
the development and
use of an integrated
system of metamodels
and simulation
experiments for
managing quality in a

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continuous casting system. A systematic procedure was developed to satisfy the necessary process conditions connected to one or more process parameters. The values of these parameters are to be determined such that all the process conditions are satisfied simultaneously to ensure that the product will have the desired quality.

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Optimization of Continuous Casting Using Simulation ...

Continuous casting real-time optimization

Produce cleaner steel, faster and at lower cost by digitalizing the

continuous slab casting process Monitor and

visualize real-time mold data for defect detection, early

warnings, mold flow prediction and much

more with fiber-optic

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Ability ...**

Today, the combination of newest developments in coupled 3D numerical heat and mass transport simulation coupled with computational optimization methods based on genetic

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algorithms allows new approaches to answering various questions that arise in continuous casting process optimization.

Autonomous
Mathematical
Optimization of
Continuous Casting

...

The Optimization of Continuous Casting Process or machine sees its future in Artificial Intelligence

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and some more hybrid strategies are being worked upon.

Moreover, apart from optimizing the optimum available some new Optimization parameters is the objective. 4.

OPTIMIZATION OF CONTINUOUS CASTING PROCESS IN STEEL ...

casting process optimization. The objectives for the

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optimization were to get the best possible coupling between casting speed, spraying nozzle layout and liquid pool depth. The use of a multi-objective optimization algorithm made it possible to follow all these objectives simultaneously.

AUTONOMOUS MATHEMATICAL OPTIMIZATION OF CONTINUOUS

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Virtual experimentation and automatic optimization can be applied to optimize all kind of parameters in a continuous casting process so that it can be run robustly at its best possible operating point.

Automatic Virtual Optimization of Ingot and Continuous ...

A recently developed

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advanced optimization algorithm named as teaching-learning-based optimization (TLBO) is used for the parameters optimization of these casting processes. Each process is described with a suitable example which involves respective process parameters.

Parameters optimization of selected casting

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Optimization of
Oscillation Parameters
in Continuous Casting
Process of Steel
Manufacturing: Genetic
Algorithms versus
Differential Evolution
Arya K. Bhattacharya
and Debjani
Sambasivam
Automation Division,
Tata Steel India 1.
Introduction

Continuous casting is a
critical step in the steel
manufacturing process

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where molten metal

Optimization of Oscillation Parameters in Continuous ...

This paper proposes a new method based on the Theory of Inventive Problem Solving (TRIZ) for casting process optimization, and realizes the idea of applying TRIZ to optimize the casting process of a magnesium alloy

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intake manifold. By this method, the casting process is optimized so as to remove the shrinkage pores.

Optimization of casting process based on the theory of ...

A process with three or four chromatography steps will not be easy to move to a continuous process.

“Multi-mode, mixed-mode resin chemistries

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that offer the potential to reduce the number of steps will, therefore, play an important role in facilitating the adoption of continuous chromatography," he concludes.

Process Chromatography: Continuous Optimization | BioPharm ...

FLOW-3D CAST v5.1's
Continuous Casting
Workspace includes all

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the tools needed to simulate and optimize a process design to produce high-quality continuous castings in a cost-efficient manner. Two primary types of continuous casting processes can be modeled: strand casting and direct chill continuous casting.

Achieving Optimal Continuous Castings - FLOW-3D CAST

The casting process

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design of large cast steel supports is carried out, and the special integrated sand core and forged steel cast lugs are used to simplify the cavity manufacturing process. The ProCAST software was used to simulate the casting process of the stent, simulating the filling and solidification of the casting, and predicting the occurrence of defects such as

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shrinkage and ...

Casting Process Design and Simulation of Large Cast Steel ...

Consequently, the optimization of the continuous casting process was conducted. This paper begins with an explanation of the methods; then the modelling and implementation of results into practice is

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presented, before,
finally, conclusions are
drawn. 2.

**REDUCTION OF
SURFACE DEFECTS
AND OPTIMIZATION
OF ...**

This paper deals with two mathematical models to optimization of a continuous casting process control. The first model is our original numerical model of temperature field, while the second one is

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represent a black-box type of optimization algorithm. The aim of optimization and control of the steel slabs production is

OPTIMIZATION ALGORITHM AND NUMERICAL SIMULATION FOR ...

The cast metal from the twin-belt continuous casting machine is synchronized with, and directly fed into, a hot

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rolling mill. Combining the casting and rolling operations can result in significant energy and cost savings over other casting processes which incorporate intermediate cast and reheat steps.

Continuous casting - Wikipedia

The application of this model is a prerequisite for continuous casting workflow optimization. With the software that

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implements this mathematical model the operator is able to monitor the process of continuous casting and to guide it in a way that the production is optimal, maintaining high quality of production in the same time.

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workflow. - Free
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pleased to announce
150th order in the last
ten years for
continuous caster
process optimization.
One of China's largest
steel producers
recently awarded
Primetals Technologies
an order to optimize
the processes of one of
its continuous casters.

**Current News of
Primetals
Technologies**
Steelmaking

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casting
(SCC)—hot rolling (HR)
is a key process in the
production of steel
products. It is also a
process with large
energy consumption.
Energy saving has
always been an
important goal of
production scheduling
of this process. In this
paper, aiming at
integrated scheduling
optimization for SCC-
HR processes, energy
saving objective is

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converted to minimize
waiting time ...

In Steel Integrated Scheduling for Steelmaking Continuous Casting

...

This study investigates a challenging problem of rescheduling a hybrid flow shop in the steelmaking-continuous casting (SCC) process, which is a major bottleneck in the production of iron

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and steel. In
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consideration of
uncertain disturbance
during SCC process, we
develop a time-indexed
formulation to model
the SCC rescheduling
problem.

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