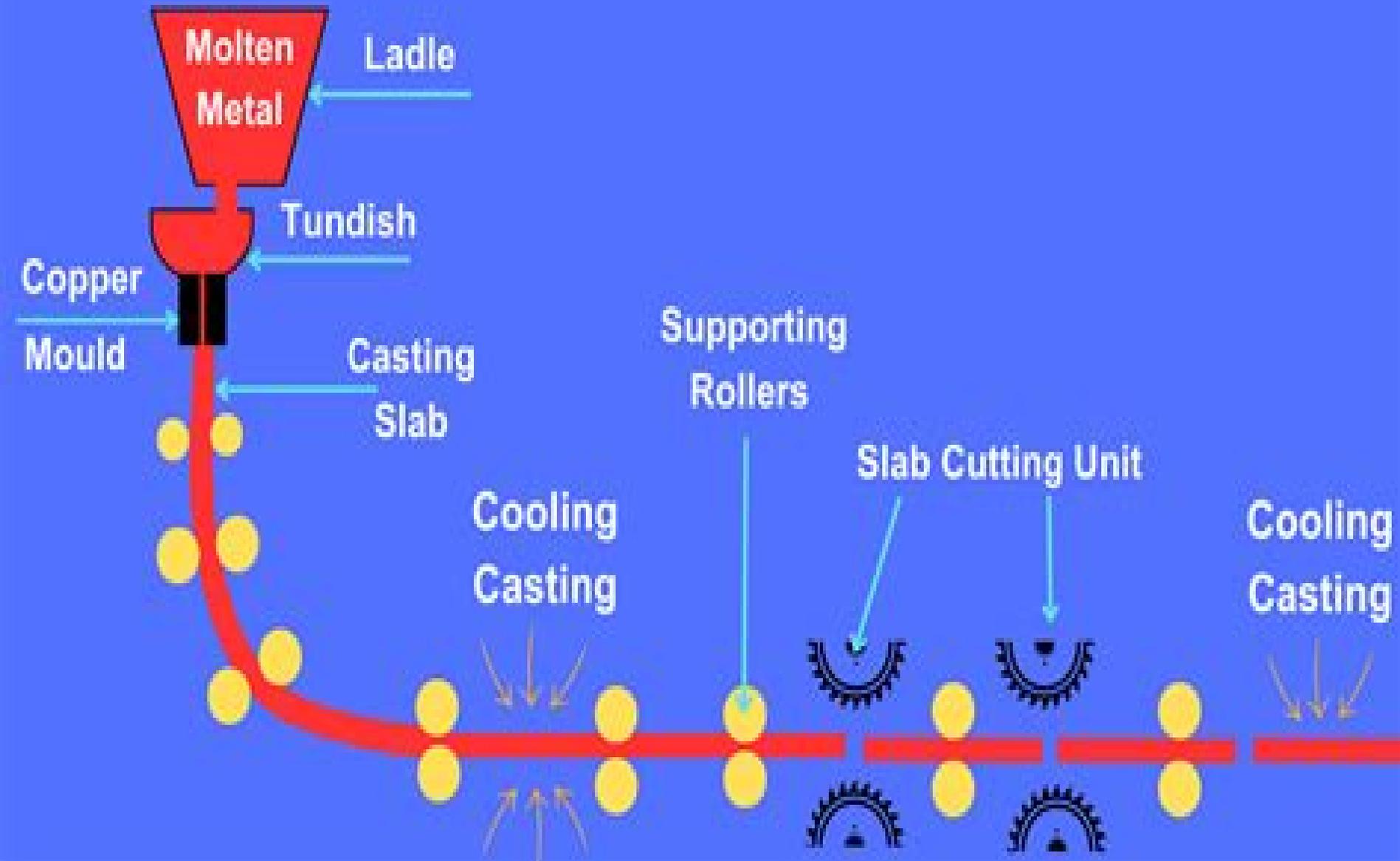


# Continuous Casting Process



# Optimization Of Continuous Casting Process In Steel

**Kuangdi Xu**



## **Optimization Of Continuous Casting Process In Steel:**

**Swarm, Evolutionary, and Memetic Computing** Bijaya Ketan Panigrahi, Swagatam Das, Ponnuthurai Nagarathnam Suganthan, Pradipta Kumar Nanda, 2012-12-16 This book constitutes the refereed proceedings of the Third International Conference on Swarm Evolutionary and Memetic Computing SEMCCO 2012 held in Bhubaneswar India in December 2012. The 96 revised full papers presented were carefully reviewed and selected from 310 initial submissions. The papers cover a wide range of topics in swarm evolutionary memetic and other intelligent computing algorithms and their real world applications in problems selected from diverse domains of science and engineering. Optimization of Oscillation Parameters in Continuous Casting Process of Steel Manufacturing: Genetic Algorithms Versus Differential Evolution Arya K. Bhattacharya, Debjani Sambasivam, 2009 The relationships between oscillation performance metrics like lubrication oscillation mark depth and peak friction and the design parameter set consisting of stroke  $s$  frequency  $f$  and deviation from sinusoidal waveform are expressed in a mathematical framework. This enables the definition of explicit objective functions and constraints that are used to drive a Genetic Algorithm towards the best performing parameter set across the entire range of casting speed. Comparison with parameter sets provided by OEM and implemented currently shows that the synthesized set provides much better lubrication, the prime objective of oscillating the mold while also reducing oscillation marks and peak friction. Furthermore, this is achieved with only minor variation of the parameters across the speed range. Substitution of a Genetic Algorithm by a Differential Evolution algorithm for the above synthesis generates exactly identical results from the engineering domain perspective but with a convergence rate that is faster by at least one order of magnitude. The reasons for this are analyzed leading to a conclusion that for small dimensioned problems DE is definitely a better approach but for larger dimensioned ones it is advisable to use GA in the initial phases and switch to DE at a later stage as the approach to global optimum becomes asymptotic. **TMS 2025 154th Annual Meeting & Exhibition Supplemental Proceedings** Minerals, Metals & Materials Society, 2025-03-02 This collection presents papers from the 154th Annual Meeting Exhibition of The Minerals Metals Materials Society. Treatise on Process Metallurgy Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, H. Y. Sohn, 2024-08-23 Treatise on Process Metallurgy Volume Four Industrial Production provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products. In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more. The work distills the combined academic experience from the

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