

# Continuous Casting

- **Continuous casting**, also called **strand casting**, is the process whereby molten metal is solidified into a "semi finished" billet, bloom, or slab for subsequent rolling in the finishing mills. Prior to the introduction of continuous **casting** in the 1950s, steel was poured into stationary molds to form ingots.

# Continuous Casting 2005

**Lei Huang**



## **Continuous Casting 2005:**

Continuous Casting Michael Vynnycky, 2019-07-30 Continuous casting is an industrial process whereby molten metal is solidified into a semi finished billet bloom or slab for subsequent rolling in finishing mills it is the most frequently used process to cast not only steel but also aluminium and copper alloys Since its widespread introduction for steel in the 1950s it has evolved to achieve improved yield quality productivity and cost efficiency It allows lower cost production of metal sections with better quality due to the inherently lower costs of continuous standardized production of a product as well as providing increased control over the process through automation Nevertheless challenges remain and new ones appear as ways are sought to minimize casting defects and to cast alloys that could originally only be cast via other means This Special Issue of the journal Metals consists of 14 research articles that cover many aspects of experimental work and theoretical modelling related to the ongoing development of continuous casting processes **Solidification End Reduction of**

**Continuous Casting Process** Cheng Ji, Miaoyong Zhu, Rui Guan, 2025-08-16 This book summarizes the formation of solidification defects in continuous casting strand and the process mechanism of improving central segregation porosity and shrinkage under solidification end reduction The behavior rules of shell deformation crack initiation and propagation solute transport shrinkage cavity closure microstructure refinement and evolution during solidification end reduction process were systematically expounded It introduces how to realize the accurate efficient and stable implementation of the solidification end reduction in the production process and the design and development of key equipment Finally taking the specific production lines of Baosteel and Panzhihua Iron and Steel Co Ltd as examples the industrial application and effect of solidification end reduction technology are listed **TMS 2012 141st Annual Meeting and Exhibition, Materials**

**Properties, Characterization, and Modeling** The Minerals, Metals & Materials Society (TMS), 2012-05-15 This book contains chapters on cutting edge developments presented at the TMS annual conference of 2012 Continuous Casting

2005 H. R. Müller, 2005 Extractive Metallurgy of Copper Mark E. Schlesinger, Kathryn C. Sole, William G.

Davenport, 2011-09-02 William G I Davenport **Mechanics and Mechatronics (icmm2015) - Proceedings of the 2015 International Conference** A. Mehran Shahhosseini, 2015-11-02 This proceedings brings together one hundred and fifty two selected papers presented at the 2015 International Conference on Mechanics and Mechatronics ICMM 2015 which was held in Changsha Hunan China during March 13 15 2015 ICMM 2015 focuses on 7 main areas Applied Mechanics Mechanical Engineering Instrumentation Automation and Robotics Computer Information Processing and Civil Engineering Experts in this field from eight countries including China South Korea Taiwan Japan Malaysia Hong Kong Indonesia and Saudi Arabia contributed to the collection of research results and developments ICMM 2015 provides an excellent international platform for researchers to share their knowledge and results in theory methodology and applications of Applied Mechanics and Mechatronics All papers selected to this proceedings were subject to a rigorous peer review process by at least two

independent peers The papers are selected based on innovation organization and quality of presentation

**Ironmaking and Steelmaking** Zushu Li, Claire Davis, 2019-08-13 Steel is a critical material in our societies and will remain an important one for a long time into the future In the last two decades the world steel industry has gone through drastic changes and this is predicted to continue in the future The Asian countries e g China India have been dominant in the production of steel creating global over capacity while the steel industry in the developed countries have made tremendous efforts to reinforce its global leadership in process technology and product development and remain sustainable and competitive The global steel industry is also facing various grand challenges in strict environmental regulation new energy and materials sources and ever increasing customer requirements for high quality steel products which has been addressed accordingly by the global iron and steel community This Special Issue Ironmaking and Steelmaking released by the journal Metals published 33 high quality articles from the international iron and steel community covering the state of the art of the ironmaking and steelmaking processes This includes fundamental understanding experimental investigation pilot plant trials industrial applications and big data utilization in the improvement and optimization of existing processes and research and development in transformative technologies It is hoped that the creation of this special issue as a scientific platform will help drive the iron and steel community to build a sustainable steel industry

SPONGE IRON PRODUCTION BY DIRECT REDUCTION OF IRON OXIDE, SECOND EDITION CHATTERJEE, AMIT, 2012-09-12 This book provides a fascinating study of the very important emerging field of direct reduction in which iron ore is directly reduced in the solid state using either natural gas or non coking coal to produce a highly metallised material referred to as sponge iron or direct reduced iron This intermediate product is subsequently melted in electric arc furnaces or induction furnaces sometimes even in basic oxygen furnaces to produce liquid steel Such a process combination enables steel to be produced without using coking coal which is an expensive input in the normal blast furnace basic oxygen furnace route of steelmaking adopted in integrated steel plants The book offers comprehensive coverage and critical assessment of various coal based and gas based direct reduction processes Besides dealing with the application of the theoretical principles involved in the thermodynamics and kinetics of direct reduction the book also contains some worked out examples on sponge iron production The concluding part of this seminal book summarises the present and future scenario of direct reduction including the use of gas generated from coal in direct reduction processes The book is primarily intended for the undergraduate and postgraduate students of metallurgical engineering It is also a must read for researchers technologists and process metallurgists engaged in the rapidly developing field of direct reduction of iron oxides which is of critical importance for India and other developing nations that are beginning to play a major role in global steelmaking

**Minerals Yearbook** ,2009 DETC2005 ,2005 *The Control Technology for Slab Surface Crack During Continuous Casting of Micro-alloyed Steel* Zhaozhen Cai, Miaoyong Zhu, 2025-09-15 In this book the formation causes and the control principles of the surface crack defects of micro alloyed

steel slab such as the transverse corner cracks longitudinal depressions in the wide face off corners and the hot charging cracks were discussed On this basis the key technologies for the slab surface defects control were proposed The contents of the book included the control technology for the transverse corner crack of conventional and wide and thick slabs of micro alloyed steel the control technology for thin slab corner crack of micro alloyed steel the control technology for wide face longitudinal off corner depression of thick slab as well as the control technology for hot charging crack of micro alloyed steel slab This book can be read for the technical developers and scientific researchers engaged in slab continuous casting production of steel and can also be used as a reference for teachers and students in colleges and universities of related majors

**Official Gazette of the United States Patent and Trademark Office** ,2006      *Refining and Casting of Steel*

Karel Gryc,Jan Falkus,2020-11-09 Steel has become the most requested material all over the world during the rapid technological evolution of recent centuries As our civilization grows and its technological development becomes connected with more demanding processes it is more and more challenging to fit the required physical and mechanical properties for steel in its huge portfolio of grades for each steel producer It is necessary to improve the refining and casting processes continuously to meet customer requirements and to lower the production costs to remain competitive New challenges related to both the precise design of steel properties and reduction in production costs are combined with paying special attention to environmental protection These contradictory demands are the theme of this book      *Light Metals 2018* Olivier Martin,2018-01-31 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2018 collection includes papers from the following symposia 1 Alumina and Bauxite2 Aluminum Alloys Processing and Characterization3 Aluminum Reduction Technology4 Cast Shop Technology5 Cast Shop Technology Energy Joint Session6 Cast Shop Technology Fundamentals of Aluminum Alloy Solidification Joint Session7 Cast Shop Technology Recycling and Sustainability Joint Session8 Electrode Technology for Aluminum Production9 Perfluorocarbon Generation and Emissions from Industrial Processes10 Scandium Extraction and Use in Aluminum Alloys      Energy Technology 2015 Animesh Jha,Cong Wang,Neale Neelameggham,Donna Guillen,Li Li,Cynthia Belt,Randolph Kirchain,Jeffrey Spangenberg, Frank Johnson,Andrew Gomes,Amit Pandey,Peter Hosemann,2016-12-06 This book covers various technological aspects of sustainable energy ecosystems and processes that improve energy efficiency and reduce and sequester carbon dioxide CO<sub>2</sub> and other greenhouse emissions Papers emphasize the need for sustainable technologies in extractive metallurgy materials processing and manufacturing industries with reduced energy consumption and CO<sub>2</sub> emission Industrial energy efficient technologies include innovative ore beneficiation smelting technologies recycling and waste heat recovery The book also contains contributions from all areas of non nuclear and non traditional energy sources including renewable energy sources such as

solar wind and biomass Papers from the following symposia are presented in the book Energy Technologies and Carbon Dioxide Management Recycling and Sustainability Update Magnetic Materials for Energy Applications V Sustainable Energy and Layered Double Hydroxides

**Physical Metallurgy of Direct Chill Casting of Aluminum Alloys** Dmitry G. Eskin, 2008-04-17 Pulling together information previously scattered throughout numerous research articles into one detailed resource this book connects the fundamentals of structure formation during solidification with the practically observed structure and defect patterns in billets and ingots The author examines the formation of a structure properties and defects in the as cast material in tight correlation to the physical phenomena involved in the solidification and the process parameters Compiling recent results and data the book discusses the fundamentals of solidification together with metallurgical and technological aspects of DC casting It gives new insight and perspective into DC casting research

**Swarm, Evolutionary, and Memetic Computing** Bijaya Ketan Panigrahi, Swagatam Das, Ponnuthurai Nagaratnam 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

**Science and Technology of Casting Processes** Malur Srinivasan, 2012-09-26 This book deals with various science and technology factors that need careful consideration in producing a casting It consists of 11 chapters contributed by experts in their respective fields The topics include simulation of continuous casting process control of solidification of continuous castings influence of mold flux in continuous casting segregation in strip casting of steel developments in shell and solid investment mold processes innovative pressure control during filling of sand molds fracture toughness specifically of castings permanent molding of cast iron wear resistant castings and improvement of accuracy in estimating graphite nodularity in ductile iron castings

**Light Metals 2020** Alan Tomsett, 2020-01-28 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2020 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Cast Shop Technology Cast Shop Technology Recycling and Sustainability Joint Session Electrode Technology for Aluminum Production

**Sensors, Sampling, and Simulation for Process Control** Brian G. Thomas, Yurko, Lifeng Zhang, 2011-04-12 This symposium aims to explore the current state of the art in control of industrial processes in the field of extraction and processing of metals and materials New sensor technologies more advanced real time models and faster computers are enabling better control systems for these processes Specific topics include but are not

limited to 1 novel sensors for hostile environment materials processes such as online inclusion detection temperature and velocity in molten materials surface condition of hot moving products etc 2 innovative online sampling and analysis techniques 3 models for real time process control and quality monitoring systems 4 process automation scheduling and plant wide logistics optimization 5 control of composition temperature microstructure and morphology in sintering smelting refining solidification reheating deformation and transport of ores slags mattes metals materials and aqueous solutions 6 prediction monitoring control and optimization of process parameters in these systems 7 control in manufacturing processes including casting annealing forging rolling extrusion powder metallurgy electronic materials welding etc 8 control of impurities and environmentally undesirable components in product and waste streams

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