

# DIRECT-CHILL CASTING OF LIGHT ALLOYS

SCIENCE AND TECHNOLOGY

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# Direct Chill Casting Of Light Alloys Science And Technology

**Ensheng Dong**



## **Direct Chill Casting Of Light Alloys Science And Technology:**

**Direct-Chill Casting of Light Alloys** John Grandfield, D. G. Eskin, Ian Bainbridge, 2013-06-25 Direct chill casting is the major production route for wrought aluminium and magnesium alloys that are later deformed rolled extruded forged to the final products To aid in this process this book provides comprehensive coverage on topics such as the history of process development in this field industrial applications including vertical and horizontal casting melt preparation fundamentals of solidification in DC casting and more The first book targeted for the industrial researcher and practitioner it pulls together the practice and process of physics with the goal of improving process performance *Ultrasonic Treatment of Light Alloy Melts* Georgy I. Eskin, Dmitry G. Eskin, 2014-08-20 Spawned by growing interest in ultrasonic technology and new developments in ultrasonic melt processing the Second Edition of *Ultrasonic Treatment of Light Alloy Melts* discusses use of ultrasonic melt treatment in direct chill casting shape casting rapid solidification zone refining and more exploring the effects of power ultrasound on melt degassing filtration and refinement in aluminum and magnesium alloys The fully revised and restructured Second Edition Contains new in depth coverage of composite and nanocomposite materials Provides a historical review of the last century of ultrasonic applications to metallurgy Emphasizes the fundamentals mechanisms and applications of ultrasonic melt processing in different light metal technologies Features new chapters on ultrasonic grain refinement refinement of primary solid phases and semi solid processing of billets with nondendritic structure Includes significant updates reflecting results obtained over the past two decades on different scales from laboratory to full scale industrial implementations Complete with many new figures and examples *Ultrasonic Treatment of Light Alloy Melts* Second Edition delivers a comprehensive treatise on ultrasonic melt processing and cavitation presenting essential guidelines for practical use and further development of the technology *Light Metals 2019* Corleen Chesonis, 2019-02-15 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 2019 collection includes papers from the following symposia 1 Alumina and Bauxite 2 Aluminum Alloys Processing and Characterization 3 Aluminum Reduction Technology 4 Cast Shop Technology 5 Cast Shop Technology Energy Joint Session 6 DGM TMS Symposium on Lightweight Metals 7 Electrode Technology for Aluminum Production 8 REWAS 2019 Cast Shop Recycling Technologies 9 Scandium Extraction and Use in Aluminum Alloys 10 Ultrasonic Processing of Liquid and Solidifying Alloys *Light Metals 2021* Linus Perander, 2021-02-23 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 2021 collection includes contributions from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology

Aluminum Reduction Technology Across the Decades An LMD Symposium Honoring Alton T Tabereaux Halvor Kvande and Harald A ye Cast Shop Technology Electrode Technology for Aluminum Production Light Metals 2024 Samuel Wagstaff,2024-02-03 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 2024 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Scandium Extraction and Use in Aluminum Alloys Chapter s Online Monitoring of Metal Oxides in Molten Fluoride Electrolytes is available open access under a Creative Commons Attribution 4 0 International License via Springerlink

**Essential Readings in Light Metals, Cast Shop for Aluminum Production** John Grandfield,D. G. Eskin,2013-04-03 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Original research findings and reviews spanning all aspectsof the science and technology of casting Since 1971 The Minerals Metals Materials Society haspublished the Light Metals proceedings Highlighting some ofthe most important findings and insights reported over the pastfour decades this volume features the best original researchpapers and reviews on cast shop science and technology for aluminumproduction published in Light Metals from 1971 to 2011 Papers have been divided into ten subject sections for ease ofaccess Each section has a brief introduction and a list ofrecommended articles for researchers interested in exploring eachsubject in greater depth Only 12 percent of the cast shop science and technology papersever published in Light Metals were chosen for this volume Selection was based on a rigorous review process Among the papers readers will find landmark original research findings and expertreviews summarizing current thinking on key topics at the time ofpublication From basic research to industry standards to advancedapplications the articles published in this volume collectivelyrepresent a complete overview of cast shop science and technology supporting the work of students researchers and engineers aroundthe world **Materials Science & Technology: AIST** ,2004 *THERMEC 2011* T. Chandra,M. Ionescu,Diego Mantovani,2012-01-03 THERMEC 2011 International Conference on PROCESSING MANUFACTURING OF ADVANCED MATERIALS Processing Fabrication Properties Applications August 1 5 2011 Quebec City Canada **Light Metals Technology 2015** Hilda Kundai Chikwanda,Silethelwe Chikosha,2015-08-26 Selected peer reviewed papers from the Seventh International Light Metals Technology Conference LMT 2015 July 27 29 2015 Port Elizabeth South Africa **The 15th International Conference on Aluminium Alloys** Qing Liu,Jian-Feng Nie,Robert E. Sanders,Zhi Hong Jia,Ling Fei Cao,2016-11-01 Selected peer reviewed papers from the 15th International Conference on Aluminium Alloys ICAA15 June 12 16 2016 Chongqing China Applied Science & Technology Index ,1997 *Physical and Numerical Simulation of Materials Processing* ,2008 **Aluminium Alloys 2002 - ICAA8** Peter J. Gregson,S. Harris,2002-07-30 Their Physical and Mechanical Properties Proceedings of the 8th

International Conference ICAA8 Cambridge UK 2 5 July 2002      **Direct Chill Casting of Aluminum Alloys** Harry Ng,2011  
Novelis Global Technology Centre NGTC in Kingston Ontario has been developing a relatively new technology known as  
Novelis Fusion Technology which is a new variant of the traditional direct chill DC casting process that allows co casting of  
multi layered composite aluminum alloy ingots One of the first steps in this development program is to create a mathematical  
model of conventional DC casting and validate it through experimentation before proceeding to the next step of modeling  
designing testing and experimenting with the co casting process The focus of this document is on the design of the  
experiments measurement technique and analysis of the experimental results to be used to validate the models for  
conventional DC casting A series of experiments were conducted using a lab scale caster using a 95 mm x 227 mm  
rectangular mould available at the Novelis Global Technology Centre in Kingston Ontario AA3003 AA6111 and AA4045  
aluminum alloys were chosen for this study since these aluminum alloys are commonly used in clad products Two series of  
experiments were performed to investigate the effect of casting parameters on the solidification and cooling of the ingots  
such as casting speed water flow rate and the superheat of the molten aluminum A set of seven thermocouples were  
embedded in the ingot during the cast to capture the thermal history of the ingot Melt poisoning with a zinc rich alloy was  
also performed as an independent method of determining the sump depth and shape Experience gained from the first series  
of experiments allowed improvements to be made to the experiment design for the second series of experiments  
Thermocouples must be supported so they are not pushed out of position by the jet of molten aluminum entering the mould  
Grounded thermocouples of at least 1.5 mm in diameter were recommended to survive the high temperatures of the molten  
aluminum Knowledge gained from the experiments of the conventional DC caster allowed design and development of an  
experimental co caster mould that will be useful for future research at NGTC Melt poisoning and thermocouples were  
complementary measurement methods that should be used together In all three alloys the liquidus sump profile generated by  
the thermocouple implants correlated well with the etched sumps of the melt poisoned ingots      [Mechatronics Engineering,  
Computing and Information Technology](#) X.D. Xu,Bin Li,Q.M. Lu,X.Y. Yan,J.L. Li,2014-05-23 Selected peer reviewed papers  
from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014 April 9 10  
2014 Shanghai China      **Continuous Casting** Kurt Ehrke,Wolfgang Schneider,2000-12-27 The Continuous Casting 2000  
symposium maintains the tradition established in 1976 of holding regular events This millennium event however is the first  
international meeting of the series The aim is to highlight the importance of continuous casting of aluminum copper and  
magnesium to the international fabricating industry focusing on technological advances in all the sectors that are important  
for the manufacture of high quality continuous cast products      [Magnesium Alloys 2003](#) Yutaka Kojima,T. Aizawa,Shigeharu  
Kamado,K. Higashi,2003      *Metals Abstracts* ,1999-04      **Conference Papers Index** ,1980 Monthly Papers presented at  
recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs

and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist  
Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any  
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**Magnesium Technology 2006** Alan A. Luo, Neal Ramaswami Neelameggham, Randy S. Beals, 2006

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