

New Trends In Submerged Arc Furnace Technology

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Industrial Minerals & Rocks Jessica Elzea Kogel, 2006 News, Inc., Portland, OR (booknews.com).

The Electric Arc Furnace M. N. Brodie, M. A. Thomas, 1974

Process Control and Optimization of Submerged-arc Furnaces, 1984 This paper presents an overview of investigations conducted by the Council for Mineral Technology (Mintek) on the control and optimization of submerged-arc furnaces. Aspects covered include the on-line computer system, computer-aided operation, flow behaviour in the burden, computerization of the weighing system, the electrical behaviour of the furnace, study of the crater conditions, the electrode controller, arcing, and results obtained from the investigation.

7th International Symposium on High-Temperature Metallurgical Processing Jiann-Yang Hwang, Tao Jiang, P. Chris Pistorius, Gerardo R. F. Alvear F., Onuralp Yucel, Liyuan Cai, Baojun Zhao, Dean Gregurek, Varadarajan Seshadri, 2016-02-03 The technology, operation, energy, environmental, analysis, and future development of the metallurgical industries utilizing high temperature processes are covered in the book. The innovations on the extraction and production of ferrous and nonferrous metals, alloys, and refractory and ceramic materials, the heating approaches and energy management, and the treatment and utilizations of the wastes and by-products are the topics of special interests. This book focuses on the following issues: High Efficiency New Metallurgical Process and Technology Fundamental Research of Metallurgical Process Alloys and Materials Preparation Direct Reduction and Smelting Reduction Coking, New Energy and Environment Utilization of Solid Slag/Wastes and Complex Ores Characterization of High Temperature Metallurgical Process

Electric Arc Furnace with Flat Bath Yuri N. Toulouevski, Ilyaz Y. Zinurov, 2015 The book contains an analysis of theoretical dependences, bottlenecks and limiting factors of a new technology used in both Consteel and shaft furnaces operating with flat bath. Performances obtained and potentialities of these furnaces are examined. Based on this analysis, a steel melting aggregate of the new type - fuel arc furnace FAF has been developed and offered. In comparison with the best modern electric arc furnaces of identical capacity the productivity of FAF is higher by 36% and electrical energy consumption is lower by a factor of 1.8. Environment characteristics are considerably improved.

Electric Arc Furnace with Flat Bath Yuri N. Toulouevski, Ilyaz Y. Zinurov, 2015-03-30 The book contains an analysis of theoretical dependences, bottlenecks and limiting factors of a new technology used in both Consteel and shaft furnaces

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New Trends in Coal Conversion Isabel Suarez-Ruiz, Fernando Rubiera, Maria Antonia Diez, 2018-08-30 New Trends in Coal Conversion: Combustion, Gasification, Emissions, and Coking covers the latest advancements in coal utilization, including coal conversion processes and mitigation of environmental impacts, providing an up-to-date source of information for a cleaner and more environmentally friendly use of coal, with a particular emphasis on the two biggest users of coal—utilities and the steel industry. Coverage includes recent advances in combustion co-firing, gasification, and on the minimization of trace element and CO₂ emissions that is ideal for plant engineers, researchers, and quality control engineers in electric utilities and steelmaking. Other sections cover new advances in clean coal technologies for the steel industry, technological advances in conventional by-products, the heat-recovery/non-recovering cokemaking process, and the increasing use of low-quality coals in coking blends. Readers will learn how to make more effective use of coal resources, deliver higher productivity, save energy and reduce the environmental impact of their coal utilization. Provides the current state-of-the-art and ongoing activities within coal conversion processes, with an emphasis on emerging technologies for the reduction of CO₂ and trace elements Discusses innovations in cokemaking for improved efficiency, energy savings and reduced environmental impact Include case studies and examples throughout the book

The Development, and Implementation on Industrial Plants, of an Integrated Approach to the Metallurgical Optimization and Computer-based Control of Submerged-arc Furnaces for the Production of Ferro-alloys, 1992

Fuel Arc Furnace (FAF) for Effective Scrap Melting Yuri N. Toulouevski, Ilyaz Y. Zinurov, 2017-08-31 This book presents a new electric arc furnace process and discusses potential for developing a steelmaking aggregate of the new generation, namely the Fuel Arc Furnace based on existing shaft furnaces. It also reviews the history of developing various types of furnaces with the scrap preheating and flat bath advantages of these furnaces, identifying their disadvantages and presenting methods of eliminating them.

Factors Influencing the Diffusion of Electric Arc Furnace Steelmaking Technology Stephen Labson, 2016 In this paper, the adoption of electric arc furnace steelmaking technology is examined within a growth model of technological diffusion. The results indicate that the trend rate of adoption of electric arc furnace technology is well represented by the S-shaped growth curve. Further results indicate that the trend rate of adoption is, for the most part, stable with respect to locally changing factors to production, such as input prices and activity levels. It appears that inertial aspects have an overwhelming influence on the diffusion process.

Recent Developments in Electric Arc Furnace Operation Alan S. Morris,1983

Energy Transfer in the Hearths of Submerged-arc Furnaces Thomas Robert Curr,MINTEK (South Africa). Pyrometallurgy and Physical Metallurgy Division,1984

The Effectiveness of Current Control of Submerged Arc Furnace Electrode Penetration in Selected Scenarios ,

The electrical control of three electrode submerged arc furnaces suffers from a number of complexities mostly due to the nature of furnace electrical circuit providing power to the furnace where three electrodes are interconnected within the furnace through the molten metal bath. This gives rise to what is known as the interaction effect where variations in one electrode's current can cause comparable changes to the currents in the other electrodes, particularly in larger furnaces with low power factor.

Design and Construction of the Submerged Arc Furnace; the Modern Metallurgical Tool ,

Safety Performance of Arc Furnace Technologies New York (State). Legislature. Legislative Commission on Science & Technology,1986

Electric Arc Furnace Efficiency Edmund H. McIntyre,Edward R. Landry,1992 Abstract: This report reviews electric arc furnace technologies, equipment, charge materials, and operating practices with respect to optimizing energy use. It is designed to provide operators and utility personnel with an understanding of the factors impacting the use of electrical energy. Such understanding will be supportive of the continuing upward trend of electric arc furnace steel production as a percentage of the domestic total.

Treatise on Process Metallurgy Roderick Guthrie,Alexander McLean,Sridhar Seetharaman,H. Y. Sohn,2024-03-12

Treatise on Process Metallurgy: Volume Three, Industrial Processes 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 principal editor and the multidisciplinary four-member editorial board. Provides the entire breadth of process metallurgy in a single work Includes in-depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective, providing broad range coverage on topics

Experiences in Operation of Various Electric-arc Furnaces Under Resistance Control ,2001 Mintek has been

involved in research and development on submerged-arc furnaces for more than 30 years. During this time Mintek has studied various aspects of ferro-alloy production including the operation of DC- arc furnaces, process metallurgy and the optimisation of submerged-arc furnaces. To this day the submerged-arc furnace remains the predominant vessel used in ferro-alloy production. Through close collaboration with the ferro-alloy industry world-wide, Mintek has applied its patented resistance control system (Minstral) to over 50 submerged-arc furnaces producing a wide range of ferro-alloys. The concept of resistance control has led to a total paradigm shift in the control of ferro-alloy furnaces from traditional current and impedance control, and derivations thereof. The correct resistance setpoint plays an important role in optimising furnace performance. This is especially important in silicon and ferrosilicon production, where the C3 factor played an important role in setting current set points. Mintek has studied a number of processes in order to establish criteria for selecting an optimum resistance. Each process has a certain range of typical resistances in which it operates. The optimal resistance for each operation depends on a number of factors, predominantly the size and composition of raw materials, feed recipe, and any pre-processing (pelletisation, pre-reduction) performed on the raw materials. Power control has become an increasingly important aspect of furnace optimisation. Mintek has developed and implemented an advanced power control algorithm by compensating for imbalanced loads through the out-of-step (differential) operation of the furnace transformer. Implementations on inherently unstable operations, typically the production of ferro-chrome with a high percentage of fines present in the feed, have resulted in a dramatic improvement in production and utilisation of available energy. Mintek has also extended the concept of resistance control to other applications besides the production of ferro-alloys. This paper will examine Mintek's experience in optimising various processes using resistance and power control.

Treatise on Process Metallurgy, Volume 3: Industrial Processes, 2013-12-09 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials, from raw materials into finished parts or products. Coverage is divided into three volumes, entitled Process Fundamentals, encompassing process fundamentals, extractive and refining processes, and metallurgical process phenomena; Processing Phenomena, encompassing ferrous processing; non-ferrous processing; and refractory, reactive and aqueous processing of metals; and Industrial Processes, encompassing process modeling and computational tools, energy optimization, environmental aspects and industrial design. The work distills 400+ years combined academic experience from the principal editor and multidisciplinary 14-member editorial advisory board, providing the 2,608-page work with a seal of quality. The volumes will function as the process counterpart to Robert Cahn and Peter Haasen's famous reference family, *Physical Metallurgy* (1996)--which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono (publishing 2014). Nevertheless, process and extractive metallurgy are fields within their own right, and this work will be of interest to libraries supporting courses in the process area. Synthesizes the most pertinent contemporary developments

within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution, saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed

Innovation in Electric ARC Furnaces Yuri N. Toulouevski,Ilyaz Yunusovich Zinurov,2010-04-17

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