

FLASH SMELTING

**Analysis, Control
and Optimization**

By

W G DAVENPORT

University of Arizona, Tucson, AZ, USA

and

E H PARTELPOEG

Phelps Dodge Corporation, Playas, NM, USA

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Flash Smelting Analysis Control And Optimization

Yan Bai



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Flash Smelting William George Davenport, E. H. Partelpoeg, 1987 Very Good No Highlights or Markup all pages are intact

Flash Smelting, 2001 This title chronicles developments made in flash furnaces and the process of flash smelting It is divided into a descriptive section and a mathematical section and this second updated edition includes the contributions of two authors and an updated mathematical approach

Flash Smelting William George Davenport, E. H. Partelpoeg, 1987

Extractive Metallurgy of Copper William G. Davenport, Matthew J. King, Mark E. Schlesinger, A.K. Biswas, 2002-09-19

This new edition has been extensively revised and updated since the 3rd edition published in 1994 It contains an even greater depth of industrial information focussing on how copper metal is extracted from ore and scrap and how this extraction could be made more efficient Modern high intensity smelting processes are presented in detail specifically flash Contop Isasmelt Noranda Teniente and direct to blister smelting Considerable attention is paid to the control of SO₂ emissions and manufacture of H₂SO₄ Recent developments in electrorefining particularly stainless steel cathode technology are examined Leaching solvent extraction and electrowinning are evaluated together with their impact upon optimizing mineral resource utilization The book demonstrates how recycling of copper and copper alloy scrap is an important source of copper and copper alloys Copper quality control is also discussed and the book incorporates an important section on extraction economics Each chapter is followed by a summary of concepts previously described and offers suggested further reading and references

Flash Smelting W. G. Davenport, E. H. Partelpoeg, 2015-05-11 Flash Smelting Analysis Control and Optimization deals with the analysis control and optimization of flash smelting This book explores flash smelting in general and Outokumpu and Inco flash smelting in particular and also presents a mathematical description for the flash smelting process A set of mass and heat balance equations that can be used to describe steady state smelting under autogenous or nearautogenous smelting conditions is developed This text has 20 chapters and begins with an overview of flash smelting and its products the main raw materials of copper flash smelting chemical reactions in the flash furnace impurities in the concentrates that are fed to the flash furnace and the operation of industrial flash furnaces Attention then turns to Outokumpu flash smelting In o flash smelting and mathematical representation of flash smelting The chapters that follow focus on the effects of blast preheat on flash smelting the combustion of fossil fuel in the flash furnace and the effect of matte grade on the fossil fuel industrial oxygen and blast preheat requirements of flash smelting Equations are used to determine the effects of such factors as concentrate composition blast temperature and dust carryout and as the basis for optimizing and controlling the flash smelting process This book will be of interest to both mathematicians and metallurgists

Sustainable Metals Management Arnim von Gleich, Robert U. Ayres, Stefan Gößling-Reisemann, 2007-01-16 What s in a name What in particular is metals management all about I suspect that my colleagues assumed that I would have a good answer given that the endowed Sandoz Chair I occupied from 1992 until my retirement in 2000 was entitled Environment

and Management and at INSEAD I created a Center for Management of Environmental Resources CMER Metals are a subset of resources et voila However in all honesty management as such was never my core competence to use another phrase popularized by business schools Here comes the shocking secret We used the word management in those titles because INSEAD is a business school where everything has to have an application to business For my colleagues at INSEAD management is what we supposedly teach Good management they we think distinguishes successful enterprises from unsuccessful ones For some of our graduates management is what they give professional advice to corporate clients about For the rest of our graduates it is the umbrella word that describes their choice of career The implication conveyed by our choice of words is that metals can be regarded as one category of environmental resources and that resources including environmental resources can be managed in somewhat the same way that a corporation can be managed It is not even too far fetched to suggest that long run sustainability might be a management problem

Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafał Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2016-05-30 The two volume set LNAI 9692 and LNAI 9693 constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence and Soft Computing ICAISC 2016 held in Zakopane Poland in June 2016 The 134 revised full papers presented were carefully reviewed and selected from 343 submissions The papers included in the first volume are organized in the following topical sections neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications agent systems robotics and control and pattern classification The second volume is divided in the following parts bioinformatics biometrics and medical applications data mining artificial intelligence in modeling and simulation visual information coding meets machine learning and various problems of artificial intelligence

Process Analytical Chemistry Karl H. Koch, 2013-04-17 In important branches of manufacturing industries especially those producing chemicals polymers semiconductors ceramics metals and alloys analytical process control is already an integral part of the company Far reaching decisions with respect to quality ecology and economy are based on the respective analytical data The goal of this practice oriented book is to introduce chemists engineers and technicians to the strategies techniques and efficiency of modern process analytical chemistry The author is especially aiming at those professionals in small and medium enterprises who have to carry out process control tasks in a solo run

Extractive Metallurgy of Copper Mark E. Schlesinger, Kathryn C. Sole, William G. Davenport, 2011-07-26 This multi author new edition revises and updates the classic reference by William G Davenport et al winner of among other awards the 2003 AIME Mineral Industry Educator of the Year Award for inspiring students in the pursuit of clarity providing fully updated coverage of the copper production process encompassing topics as diverse as environmental technology for wind and solar energy transmission treatment of waste by products and recycling of electronic scrap for potential alternative technology implementation The authors examine industrially grounded treatments of process fundamentals and the beneficiation of raw

materials smelting and converting hydrometallurgical processes and refining technology for a mine to market perspective from primary and secondary raw materials extraction to shipping of rod or billet to customers The modern coverage of the work includes bath smelting processes such as Ausmelt and Isasmelt which have become state of the art in sulfide concentrate smelting and converting Drawing on extensive international industrial consultancies within working plants this work describes in depth the complete copper production process starting from both primary and secondary raw materials and ending with rod or billet being shipped to customers The work focuses particularly on currently used industrial processes used to turn raw materials into refined copper metal rather than ideas working only on paper New areas of coverage include the environmentally appropriate uses of copper cables in power transmission for wind and solar energy sources the recycling of electronic scrap as an important new feedstock to the copper industry and state of the art Ausmelt and Isasmelt bath smelting processes for sulfide concentrate smelting and converting

Extractive Metallurgy of Nickel, Cobalt and Platinum Group Metals Frank Crundwell, 2011-09-23 W G Davenport *Celebrating the Megascale* Phillip J. Mackey, Eric J. Grimsey, Rodney T. Jones, Geoffrey A. Brooks, 2014-01-15 This volume contains the proceedings of the David Robertson Honorary Symposium Celebrating the Megascale held at the TMS 2014 Annual Meeting in San Diego California Dr David G C Robertson Professor Emeritus of Metallurgical Engineering at the Missouri University of Science and Technology has devoted his career to the education of highly skilled metallurgical professionals and to the science of all types and sizes of metallurgical processes particularly those involving molten metals The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals

Extraction 2018 Boyd R. Davis, Michael S. Moats, Shijie Wang, Dean Gregurek, Joël Kapusta, Thomas P. Battle, Mark E. Schlesinger, Gerardo Raul Alvear Flores, Evgueni Jak, Graeme Goodall, Michael L. Free, Edouard Asselin, Alexandre Chagnes, David Dreisinger, Matthew Jeffrey, Jaeheon Lee, Graeme Miller, Jochen Petersen, Virginia S. T. Ciminelli, Qian Xu, Ronald Molnar, Jeff Adams, Wenying Liu, Niels Verbaan, John Goode, Ian M. London, Gisele Azimi, Alex Forstner, Ronel Kappes, Tarun Bhambhani, 2018-08-18 This three volume set presents papers from the first collaborative global metallurgy conference focused exclusively on extractive topics including business and economic issues Contributions examine new developments in foundational extractive metallurgy topics and techniques and present the latest research and insights on emerging technologies and issues that are shaping the global extractive metallurgy industry The book is organized around the following main themes hydrometallurgy pyrometallurgy sulfide flotation and extractive metallurgy markets and economics

Extractive Metallurgy of Copper A.K. Biswas, W.G. Davenport, 2013-10-22 A

completely revised and up to date edition containing comprehensive industrial data The many significant changes which occurred during the 1980s and 1990s are chronicled Modern high intensity smelting processes are presented in detail specifically flash Contop Isasmelt Noranda Teniente and direct to blister smelting Considerable attention is paid to the control of SO₂ emissions and manufacture of H₂SO₄ Recent developments in electrorefining particularly stainless steel cathode technology are examined Leaching solvent extraction and electrowinning are evaluated together with their impact upon optimizing mineral resource utilization The volume targets the recycling of copper and copper alloy scrap as an increasingly important source of copper and copper alloys Copper quality control is also discussed and the book incorporates an important section on extraction economics Each chapter is followed by a summary of concepts previously described and offers suggested further reading and references *Minerals Yearbook* United States. Bureau of Mines, 1991 *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 distils 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 **Handbook on Material and Energy Balance Calculations in Material Processing** Arthur E. Morris, Gordon Geiger, H. Alan Fine, 2012-01-03 Lately there has been a renewed push to minimize the waste of materials and energy that accompany the production and processing of various materials This third edition of this reference emphasizes the fundamental principles of the conservation of mass and energy and their consequences as they relate to materials and energy New to this edition are numerous worked examples illustrating conventional and novel problem solving techniques in applications such as semiconductor processing environmental engineering the production and processing of advanced and exotic materials for aerospace electronic and structural applications **Metals Abstracts**

,1998 **Process Modeling in Pyrometallurgical Engineering** Henrik Saxén,Marco A. Ramírez-Argáez,Alberto N. Conejo,Abhishek Dutta,2021-09-01 The Special Issue presents almost 40 papers on recent research in modeling of pyrometallurgical systems including physical models first principles models detailed CFD and DEM models as well as statistical models or models based on machine learning The models cover the whole production chain from raw materials processing through the reduction and conversion unit processes to ladle treatment casting and rolling The papers illustrate how models can be used for shedding light on complex and inaccessible processes characterized by high temperatures and hostile environment in order to improve process performance product quality or yield and to reduce the requirements of virgin raw materials and to suppress harmful emissions **Flash Ironmaking** H. Y. Sohn,2023-03-08 This book addresses the two major issues faced by the modern steel industry CO₂ emissions and energy consumption The steel industry accounts for 6 7% of the anthropogenic CO₂ emissions and consumes 6% of the total energy consumed in manufacturing In response to these critical issues a new technology called flash ironmaking has been developed aimed at producing iron directly from iron ore concentrate using gaseous reductants fuels such as natural gas or hydrogen This ironmaking technology takes advantage of the rapid reaction rate of fine particles and bypasses the palletization process This book discusses the principles of flash ironmaking laboratory experiments and design and operation of a prototype flash reactor Provides theories and principles of ironmaking and a novel ironmaking technology Includes laboratory experiments to establish the kinetic feasibility of flash ironmaking Covers the design and operation of a prototype flash reactor as well as the design of industrial size flash ironmaking reactors Describes various cases of flow sheet development which forms the basis for process analysis and simulation Presents economic analysis case studies Presenting a novel technology that addresses contemporary issues facing one of the largest manufacturing industries this book is aimed at professionals and researchers in metallurgy materials engineering manufacturing engineering and related disciplines **Proceedings of the Copper 99-Cobre 99 International Conference: Smelting operations and advances** ,1999 The smelter operations sessions presented more than 50 papers dealing with all aspects of pyrometallurgy Topics included many industrial developments including smelter modernization waste heat boiler technology gas cooling and heat recovery sulfuric acid plant systems and designs gas handling efforts to refine the Pierce Smith converter process Teniente technology continuous processing distribution and removal of impurities Ausmelt technology smelter design drying facilities and furnace cooling design Also included is a reprinted paper from the American Institute of Mining and Metallurgical Engineers meeting of 1899

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