



Extractive Metallurgy of **Copper**

Sixth Edition

Mark E. Schlesinger
Kathryn C. Sole
William G. Davenport
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Extractive Metallurgy Of Copper 5th Edition

**Thomas Battle, Michael Moats, Violina
Cocalia, Harald Oosterhof, Shafiq
Alam, Antoine Allanore, Rodney
Jones, Nathan Stubina, Corby
Anderson, Shijie Wang**

Extractive Metallurgy Of Copper 5th Edition:

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.

Extractive Metallurgy of Copper Mark E. Schlesinger, Kathryn C. Sole, William G. Davenport, 2011-09-02
William G. I. Davenport Extractive Metallurgy of Copper Mark E. Schlesinger, Kathryn C. Sole, William G. Davenport, Gerardo R.F. Alvear Flores, 2021-12-02
Extractive Metallurgy of Copper Sixth Edition expands on previous editions including sections on orogenesis and copper mineralogy and new processes for efficiently recovering copper from ever declining Cu grade mineral deposits. The book evaluates processes for maintaining concentrate Cu grades from lower grade ores. Sections cover the recovery of critical byproducts e.g. cesium, worker health and safety automation as a safety tool and the geopolitical forces that have moved copper metal production to Asia especially China and new smelting and refining processes. Indigenous Asian smelting processes are evaluated along with energy and water requirements, environmental performance, copper electrorefining processes and sulfur dioxide capture processes e.g. WSA. The book puts special emphasis on the benefits of recycling copper scrap in terms of energy and water requirements. Comparisons of ore to product and scrap to product carbon emissions are also made to illustrate the concepts included. Describes copper mineralogy, mining and beneficiation techniques. Compares a variety of mining, smelting and converting technologies. Provides a complete description of hydrometallurgical and electrometallurgical processes including process options and recent improvements. Includes comprehensive descriptions of secondary copper processing including scrap collection and upgrading, melting and refining technologies.

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

Extractive Metallurgy of Copper A. K. Biswas,W. G.

Davenport,2013-09-11 Extractive Metallurgy of Copper details the process of extracting copper from its ore The book also discusses the significance of each process along with the concerns in each process such as pollution energy demand and cost The text first provides an overview of the metallurgical process of copper extraction and then proceeds to presenting the step by step representation of the whole process of copper extraction The coverage of the book includes mineral beneficiation roasting smelting converting refining casting and quality control The text will be of great use to metallurgists materials engineers and other professionals involved in mining industry

Extractive Metallurgy of Nickel, Cobalt and Platinum

Group Metals Frank Crundwell,Michael Moats,Venkoba Ramachandran,Timothy Robinson,W. G. Davenport,2011-07-18 This book describes and explains the methods by which three related ores and recyclables are made into high purity metals and chemicals for materials processing It focuses on present day processes and future developments rather than historical processes Nickel cobalt and platinum group metals are key elements for materials processing They occur together in one book because they i map together on the periodic table ii occur together in many ores and iii are natural partners for further materials processing and materials manufacturing They all are for example important catalysts with platinum group metals being especially important for reducing car and truck emissions Stainless steels and CoNiFe airplane engine super alloys are examples of practical usage The product emphasises a sequential building block approach to the subject gained through the author s previous writings particularly Extractive Metallurgy of Copper in four editions and extensive experience Due to the multiple metals involved and because each metal originates in several types of ore e g tropical ores and arctic ores this necessitates a multi contributor work drawing from multiple networks and both engineering and science Synthesizes detailed review of the fundamental chemistry and physics of extractive metallurgy with practical lessons from industrial consultancies at the leading international plants Discusses Nickel Cobalt and Platinum Group Metals for the first time in one book Reviews extraction of multiple metals from the same tropical or arctic ore Industrial international and multidisciplinary focus on current standards of production supports best practice use of industrial resources

SME Mineral Processing and

Extractive Metallurgy Handbook Courtney A. Young,2019-02-01 This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields It will inspire and inform current and future generations of minerals and metallurgy professionals Mineral processing and extractive metallurgy are atypical disciplines requiring a combination of knowledge experience and art Investing in this trove of valuable information is a must for all those

involved in the industry students engineers mill managers and operators More than 192 internationally recognized experts have contributed to the handbook s 128 thought provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today Contents Mineral Characterization and Analysis Management and Reporting Comminution Classification and Washing Transport and Storage Physical Separations Flotation Solid and Liquid Separation Disposal Hydrometallurgy Pyrometallurgy Processing of Selected Metals Minerals and Materials *WASTES 2015 - Solutions, Treatments and Opportunities* Candida Vilarinho, Fernando

Castro, Mário Russo, 2015-09-04 This volume presents a selection of papers from the WASTES 2015 conference a platform for scientists and industries from the waste management and recycling sectors from around the world who shared experiences and knowledge at the meeting Covering discussions regarding the balance between economic environmental and social outcomes the development of innovative techniques tools and strategies on how wastes can be transformed into good ideas Improving both the overall environmental performance and the understanding of the industry impact on the environment as well as the options analysis for its improvement were key objectives of this conference **Proceedings of the 5th**

International Symposium Honoring Professor Ian M. Ritchie Courtney Young, Akram Alfantazi, Corby Anderson, David Dreisinger, Bryn Harris, Amy James, 2013-09-19 Sponsored by The Extraction and Processing Division EPD of TMS The Mineral and Metallurgical Processing Division MPD of SME Metallurgical Society MetSoc of CIM 2003 TMS EPD Fall Meeting held in conjunction with 33rd Annual Hydrometallurgy Meeting and 2003 Conference of Metallurgists Vancouver BC Canada August 24 27 2003 *5th International Symposium on High-Temperature Metallurgical Processing* Tao

Jiang, Jiann-Yang Hwang, Mark E. Schlesinger, Onuralp Yucel, Rafael Padilla, Phillip J. Mackey, Guifeng Zhou, 2014-01-10 The analysis development and or operation of high temperature processes that involve the production of ferrous and nonferrous metals alloys and refractory and ceramic materials are covered in the book The innovative methods for achieving impurity segregation and removal by product recovery waste minimization and or energy efficiency are also involved Eight themes are presented in the book 1 High Efficiency New Metallurgical Technology 2 Fundamental Research of Metallurgical Process 3 Alloy and Materials Preparation 4 Roasting Reduction and Smelting 5 Sintering of Ores and Powder 6 Simulation and Modeling 7 Treatment of Solid Slag Wastes and Complex Ores 8 Microwave Heating Energy and Environment

Environmental and Biochemical Toxicology Jürgen Gailer, Raymond J. Turner, 2022-06-21 This text coherently links biochemical fundamentals and mechanisms with economic and societal problems of environmental pollution It addresses interdisciplinary topics such as regulatory problems sampling and pollutant quantification model organisms and provides a philosophical perspective on the toxin load on a variety of organisms including humans in the environment in the Anthropocene Case studies and exercises illustrate current issues and discuss future aspects *Copper* Daniel Fernández

González, Luis Felipe Verdeja González, 2023-12-20 Copper has been an important metal throughout history. Initially, it was used as raw material for the manufacture of tools, weapons, ornamental objects, and more. The later discovery of copper alloys such as bronze and brass extended the use of this metal alloy to many different fields based on its mechanical, corrosion, and wear resistance. Nowadays, copper is mainly used in the electrical and thermal conductivity fields, although new uses are being discovered. This book provides a comprehensive overview of copper in two sections: on copper mining and processing, and copper applications.

REWAS 2013 Anne Kvithyld, Christina Meskers, Randolph Kirchain, Greg Krumdick, Brajendra Mishra, Markus Reuter, Cong Wang, Mark Schlesinger, Gabrielle Gaustad, Diana Lados, Jeffrey Spangenberg, 2016-12-05 This volume compiles topics from the REWAS 2013 symposium at the TMS Annual Meeting, focusing on different aspects of sustainability. It discusses how to realize sustainability in such areas as transportation, the built environment, electrical and electronic equipment, and infrastructure, energy production, and water systems. Enabling sustainability topics include the use of metals and materials, processing, recycling, and recovery, as well as process design and modeling. The book focuses on understanding sustainability through life cycle management and analysis, systems modeling and design, and education and consumer awareness.

Advances in Molten Slags, Fluxes, and Salts Ramana Reddy, Pinakin Chaubal, P. Chris Pistorius, Uday Pal, 2017-01-10 This collection focuses on ferrous and non-ferrous metallurgy where ionic melts, slags, fluxes, or salts play important roles in industrial growth and economy worldwide. Technical topics included are thermodynamic properties and phase diagrams, and kinetics of slags, fluxes, and salts; physical properties of slags, fluxes, and salts; structural studies of slags, interfacial and process phenomena involving foaming, bubble formation, and drainage; slag recycling; refractory erosion, corrosion, and freeze linings; and recycling and utilization of metallurgical slags and models and their applications in process improvement and optimization. These topics are of interest to not only traditional ferrous and non-ferrous metal industrial processes but also new and upcoming technologies.

Ni-Co 2013 Thomas Battle, Michael Moats, Violina Cocalia, Harald Oosterhof, Shafiq Alam, Antoine Allanore, Rodney Jones, Nathan Stubina, Corby Anderson, Shijie Wang, 2016-12-01 With both nickel and cobalt featuring heavily in modern industry, there is an ongoing and intense interest in ore supplies and processing, applications, development, and recycling. This book presents a collection of authoritative papers covering the latest advances in all aspects of nickel and cobalt processing, including fundamentals, technology, operating practices, and related areas of Platinum Group Metals (PGM) processing. Special emphasis is given to the treatment of sulphide and laterite ores, concentrates, and secondary materials for the production of nickel and cobalt.

Element Recovery and Sustainability Andrew Hunt, 2013 Increased consumption of electronic equipment has brought with it a greater demand for rare earth elements and metals. Adding to this is the growth in low-carbon technologies such as hybrid fuel vehicles. It is predicted that the global supply of rare earth elements could soon be exhausted. A sustainable approach to the use and recovery of rare earth elements is needed, and this book addresses the political, economic, and research agendas concerning

them The problem is discussed thoroughly and a multi disciplinary team of authors from the chemistry engineering and biotechnology sectors presents a range of solutions from traditional metallurgical methods to innovations in biotechnology Case studies add value to the theory presented and indirect targets for recovery such as municipal waste and combustion ash are considered This book will be essential reading for researchers in academia and industry tackling sustainable element recovery as well as postgraduate students in chemistry engineering and biotechnology Environmental scientists and policy makers will also benefit from reading about potential benefits of recovery from waste streams **REWAS 2016** Bart Blanpain, Christina E. M. Meskers, Elsa Olivetti, Diran Apelian, John Howarter, Anne Kvithyld, Brajendra Mishra, Neale R. Neelameggham, Jeffrey S. Spangenberg, 2016-02-03 Proceedings from a 2016 sustainability symposium Information from REWAS 2016 proceedings were collected and published in REWAS 2016 Towards Materials Resource Sustainability This collection covers the proceedings of the symposium sponsored by the Recycling and Environmental Technologies Committee the Materials and Society Committee the Extracting and the Light Metals Division of the Minerals Metals and Materials Society Topics covered include enabling and understanding the sustainability related to ferrous and non ferrous metals processing batteries rare earth element applications and building materials At REWAS 2016 materials professionals exchanged ideas with other researchers and stakeholders to outline a path toward a resource efficient society **Advances in Low Carbon Technologies and Transition** Shigemi Kagawa, Hidemichi Fujii, 2021-01-06 A wide variety of technologies and products have already become widespread in our society However policies have not been well implemented to effectively reduce energy consumptions and CO2 emissions by promoting low carbon technologies and products This Special Issue focuses on studies targeting specific products e g motor vehicle household dishwashers etc and or technologies e g information and communication technology transport technology CO2 capture technology etc and quantifying resource and energy consumptions and CO2 emissions associated with products and technology systems using the reliable inventory database Thus this Special Issue provides important studies on how demand and supply side policies can contribute to reducing energy consumptions and CO2 emissions from consumption and production based perspectives *Metal Recovery from Electronic Waste: Biological Versus Chemical Leaching for Recovery of Copper and Gold* Arda Işildar, 2018-10-30 Waste electrical and electronic equipment WEEE generation is a global problem Despite the growing awareness and deterring legislation most of the WEEE is disposed improperly i e landfilled or otherwise shipped overseas and treated in sub standard conditions Informal recycling of WEEE has catastrophic effects on humans and the environment WEEE contains considerable quantities of valuable metals such as base metals precious metals and rare earth elements REE Metal recovery from WEEE is conventionally carried out by pyrometallurgical and hydrometallurgical methods In this PhD research novel metal recovery technologies from WEEE are investigated Using acidophilic and cyanide generating bacteria copper and gold were removed from crushed electronic waste with removal efficiencies of 98.4 and 44.0% respectively The leached metals in solution were

recovered using sulfidic precipitation and electrowinning separation techniques Finally a techno economic assessment of the technology was studied This research addresses the knowledge gap on two metal extraction approaches namely chemical and biological from a secondary source of metals The essential parameters of the selective metal recovery processes scale up potential techno economic and sustainability assessment have been studied Innovative Process Development in Metallurgical Industry Vaikuntam Iyer Lakshmanan, Raja Roy, V. Ramachandran, 2015-10-26 This book describes the phases for innovative metallurgical process development from concept to commercialization Key features of the book include Need for process innovation Selection and optimization of process steps Determination of the commercial feasibility of a process including engineering and equipment selection Determination of the environmental footprint of a process Case study examples of innovative process development

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