Download free Asm specialty handbook nickel cobalt and their alloys asm specialty handbook (Read Only)

this book is a comprehensive guide to the compositions properties processing performance and applications of nickel cobalt and their alloys it includes all of the essential information contained in the asm handbook series as well as new or updated coverage in many areas in the nickel cobalt and related industries w g davenport the chemistry of iron cobalt and nickel deals with the chemistry of iron cobalt and nickel and covers topics ranging from the occurrence and distribution of all three elements to their properties allotropy and analytical chemistry compounds of iron cobalt and nickel in both low and high oxidation states are also discussed this book is divided into three sections and begins with the history of iron along with its occurrence and distribution allotropy and preparation and industrial production the nuclear physical and chemical properties of iron as well as the biological importance of iron compounds are also considered compounds of iron are discussed including carbonyls and nitric oxide complexes the next two sections deal with the history occurrence and distribution allotropy analytical chemistry and preparation and industrial production of cobalt and nickel along with their nuclear physical and chemical properties compounds of cobalt and nickel are examined from carbonyls and nitrosyls to cyanides and organometallic compounds this monograph will be a useful resource for inorganic chemists provides a unique survey of the information contained in the patent literature concerning solvent extraction of nickel and cobalt all the available data from the patent documentation is classified systematically for easy retrieval of authors patents or assignees presented in three parts the first deals with leaching of nickeliferous or cobaltiferous sources using organic reagents the second reviews the solvent extraction of nickel or cobalt or both from solutions the third covers solvent extraction methods used to remove impurities from solutions containing nickel or cobalt cites over 300 patent documents in this volume operators engineers and researchers present information about all aspects of current processing technologies for nickel and cobalt as well as emerging technologies for both metals contributions from industry and academia encompass metallurgical aspects of metals commonly associated with nickel and cobalt such as copper and platinum group metals pgms specific focus areas of the collection include but are not limited to mineral processing metallurgy of nickel and cobalt ores battery materials recycling recovery of associated byproducts and pgms and sulfide and laterite processing sphalerite concentrates prepared during processing of missouri lead ores contain small percentages of cobalt and nickel which adversely affect zinc electrolysis the bureau of mines has evaluated solvent extraction and precipitation techniques to remove and recover cobalt and nickel from zinc sulfate solution prior to zinc electrolysis prepared zinc sulfate solutions containing about 190 gpl of zinc and 50 ppm of both cobalt and nickel were treated using various combinations of complexing reagents solvent ph concentration time and temperature the following complex reagents gave the best results a nitroso ßnaphthol ß nitrosos a napthol 1 2 cyclohexane dione dioxime nioxime di 2 pyridyl ketone oxime and dimethglyoxime these reagents in suitable solvents lowered the cobalt and nickel levels to the experiments conducted with boron carbide and each of four metals showed that nickel cobalt and iron formed a bonding zone between the metal and the ceramic and that chromium showed satisfactory physical wetting characteristics on the ceramic in this groundbreaking work schlundt explores the chemical properties of complex tartrates and alkaline solutions of heavy metals laying the foundation for further research in the field of coordination chemistry this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant general introduction pyrometallurgy of sulphide ores of nickel to finished metal or mattes b terry treatment of laterite ores of nickel to produce ferronickel matte or precipitated sulphide a j monhemius chemistry of nickel cobalt separation d s flett hydrometallurgy of nickel sulphides a r burkin this standard specifies classification technical requirements test methods inspection rules packaging marking transportation storage quality certificate and purchase order or contract for nickel cobalt manganese composite hydroxide the focus of this volume is current practices problems and solutions in the smelting and industrial application of copper nickel cobalt and associated elements nickel cobalt ni co laterite deposits are supergene enrichments of ni co that form from intense chemical and mechanical weathering of ultramafic parent rocks these regolith deposits typically form within 26 degrees of the equator although there are a few exceptions they form in active continental margins and stable cratonic settings it takes as little as one million years for a laterite profile to develop

Nickel, Cobalt, and Their Alloys

2000-01-01

this book is a comprehensive guide to the compositions properties processing performance and applications of nickel cobalt and their alloys it includes all of the essential information contained in the asm handbook series as well as new or updated coverage in many areas in the nickel cobalt and related industries

Extractive Metallurgy of Nickel, Cobalt and Platinum Group Metals

2011-09-23

w g davenport

An Electrolytic Process for Separating Nickel and Cobalt

1968

the chemistry of iron cobalt and nickel deals with the chemistry of iron cobalt and nickel and covers topics ranging from the occurrence and distribution of all three elements to their properties allotropy and analytical chemistry compounds of iron cobalt and nickel in both low and high oxidation states are also discussed this book is divided into three sections and begins with the history of iron along with its occurrence and distribution allotropy and preparation and industrial production the nuclear physical and chemical properties of iron as well as the biological importance of iron compounds are also considered compounds of iron are discussed including carbonyls and nitric oxide complexes the next two sections deal with the history occurrence and distribution allotropy analytical chemistry and preparation and industrial production of cobalt and nickel along with their nuclear physical and chemical properties compounds of cobalt and nickel are examined from carbonyls and nitrosyls to cyanides and organometallic compounds this monograph will be a useful resource for inorganic chemists

Deposition of Nickel-cobalt Alloys by Controlled-potential Electrolysis

1985

provides a unique survey of the information contained in the patent literature concerning solvent extraction of nickel and cobalt all the available data from the patent documentation is classified systematically for easy retrieval of authors patents or assignees presented in three parts the first deals with leaching of nickeliferous or cobaltiferous sources using organic reagents the second reviews the solvent extraction of nickel or cobalt or both from solutions the third covers solvent extraction methods used to remove impurities from solutions containing nickel or cobalt cites over 300 patent documents

The Chemistry of Iron, Cobalt and Nickel

2013-10-02

in this volume operators engineers and researchers present information about all aspects of current processing technologies for nickel and cobalt as well as emerging technologies for both metals contributions from industry and academia encompass metallurgical aspects of metals commonly associated with nickel and cobalt such as copper and platinum group metals pgms specific focus areas of the collection include but are not limited to mineral processing metallurgy of nickel and cobalt ores battery materials recycling recovery of associated byproducts and pgms and sulfide and laterite processing

Nickel & Cobalt Extraction Using Organic Compounds

2016-01-22

sphalerite concentrates prepared during processing of missouri lead ores contain small percentages of cobalt and nickel which adversely affect zinc electrolysis the bureau of mines has evaluated solvent extraction and precipitation techniques to remove and recover cobalt and nickel from zinc sulfate solution prior to zinc electrolysis prepared zinc sulfate solutions containing about 190 gpl of zinc and 50 ppm of both cobalt and nickel were treated using various combinations of complexing reagents solvent ph concentration time and temperature the following complex reagents gave the best results a nitroso ßnaphthol ß nitrosos a napthol 1 2 cyclohexane dione dioxime nioxime di 2 pyridyl ketone oxime and dimethglyoxime these reagents in suitable solvents lowered the cobalt and nickel levels to

On Complex Tartrates of Nickel, Cobalt and Iron, and Certain Alkaline Solutions of the Heavy Metals

1896

the experiments conducted with boron carbide and each of four metals showed that nickel cobalt and iron formed a bonding zone between the metal and the ceramic and that chromium showed satisfactory physical wetting characteristics on the ceramic

Ni-Co 2021: The 5th International Symposium on Nickel and Cobalt

2021-03-21

in this groundbreaking work schlundt explores the chemical properties of complex tartrates and alkaline solutions of heavy metals laying the foundation for further research in the field of coordination chemistry this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Proceedings of the Nickel-Cobalt 97 International Symposium

1997

general introduction pyrometallurgy of sulphide ores of nickel to finished metal or mattes b terry treatment of laterite ores of nickel to produce ferronickel matte or precipitated sulphide a j monhemius chemistry of nickel cobalt separation d s flett hydrometallurgy of nickel sulphides a r burkin

Nickel-silicate and Associated Nickel-cobalt-manganese-oxide Deposits Near São José Do Tocantins, Goiaz, Brazil

1944

this standard specifies classification technical requirements test methods inspection rules packaging marking transportation storage quality certificate and purchase order or contract for nickel cobalt manganese composite hydroxide

Hydrometallurgy and Refining of Nickel and Cobalt

1997

the focus of this volume is current practices problems and solutions in the smelting and industrial application of copper nickel cobalt and associated elements

Nickel-cobalt-iron Bearing Deposits in Puerto Rico

1959

nickel cobalt ni co laterite deposits are supergene enrichments of ni co that form from intense chemical and mechanical weathering of ultramafic parent rocks these regolith deposits typically form within 26 degrees of the equator although there are a few exceptions they form in active continental margins and stable cratonic settings it takes as little as one million years for a laterite profile to develop

Proceedings of the Nickel-Cobalt 97 International Symposium

1997

Cobalt and Nickel Removal from Zinc Sulfate Electrolyte by Solvent Extraction and Precipitation Techniques

1978

Investigation of Bonding Between Metals and Ceramics

1949

The Chemistry of Iron, Cobalt and Nickel

1975

Experimental Nickel-cobalt Recovery from Melt-refined Superalloy Scrap Anodes

1986

Separation and Recovery of Cobalt and Nickel by Solvent Extraction and Electrorefining

1963

Nickel, Cobalt and Chromium in Consumer Products

1992

The Chemistry of Iron, Cobalt and Nickel

1973

On Complex Tartrates Of Nickel, Cobalt And Iron, And Certain Alkaline Solutions Of The Heavy Metals

2023-07-18

Cobalt and Nickel Recovery from Missouri Lead Belt Chalcopyrite Concentrates

1978

The Emittance of Iron, Nickel, and Cobalt and Their Alloys

1961

The Chemistry of Iron, Cobalt and Nickel

1973

Bench-scale Studies of the Fischer-Tropsch Synthesis Over Iron, Nickel, and Nickel Cobalt Catalysts (Japan)

1951

Bibliography on Extractive Metallurgy of Nickel and Cobalt

1959

Nickel-cobalt Contract Obligations of the United States Government (Moa Bay, Cuba, and Braithwaite, Louisiana)

1959

Determination of Cobalt and Nickel in Tungsten by a Combined Ion Exchange X-ray Spectrographic Method

1963

Nickel-cobalt Contract Obligations of the United States Government (Moa Bay, Cuba, and Braithwaite, Louisiana).

1959

Extractive Metallurgy of Nickel

1987-07-29

The Arsenical Type of Cobalt-nickel Ores

1922

GB/T 26300-2020 Translated English of Chinese Standard. (GBT26300-2020)

2020-06-06

Recovering Cobalt and Nickel from Complex Sulfide Ores of Southeastern Missouri

1961

Zinc, cadmium, mercury, bismuth, tin, antimony, arsenic, nickel, cobalt, platinum, aluminium

1898

Upgrading Cobalt-nickel Stockpiles by the Roast-flotation Process

1958

Extractive Metallurgy of Copper, Nickel, and Cobalt: Copper and nickel smelter operations

1993

Nickel-Cobalt Laterites? A Deposit Model

2014-03-29

Review of Recent Developments in the Technology of Nickel-base and Cobalt-base Alloys

1961

Cobalt and Nickel from Lead-smelter Matte

1987

Cobalt, Nickel, and the Elements of the Platinum Group

1922

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