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The Complete Book on Non-Ferrous and Precious Metals with Electroplating Chemicals

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Description

Non-ferrous metals are those which don't have any iron content. These are specified for structural applications requiring reduced weight, higher strength, nonmagnetic properties, higher melting points, or resistance to chemical, atmospheric corrosion and also for electrical and electronic applications.

A precious metal is a rare, naturally occurring metallic chemical element of high economic value. Although they have industrial uses, they are better known for their uses in art, jewellery and coinage. Depending on the end use, metals can be simply cast into the finished part, or cast into an intermediate form, such as an ingot, then worked, or wrought, by rolling, forging, extruding, or other deformation process.

Electroplating is a procedure that uses electrolysis to apply a thin layer of a metal over the surface of another metal. Electroplating chemicals are used to change the surface properties of an object such as abrasion and wear resistance, corrosion protection, lubricity, etc. This chemical is widely demanded in automotive, electronics, telecommunications, aerospace and precision engineering industries. This handbook explains different extraction and production processes with flow diagrams of various non ferrous and precious metals.

Major contents of the book are Silver, Gold, Copper, Complex salts of copper, silver and gold, magnesium, chromium, platinum group of metals, nickel, zinc, lead, aluminium, mercury, cobalt, sodium, sodium chloride, soda ash, sodium sulfate, glauber salt, hydrochloric acid, sodium silicate, sodium sulfides, sodium thiosulfate,

sodium bisulfate, anhydrous, sodium hyposulfite, liquid chlorine, hydrides of boron, silicon, sulfuric acid, nitric acid, ammonium nitrate, hydrazine, hydrogen cyanide, melamine, amines, aniline, isocyanates, phosphorus, tin, ferroalloys, manganese, bismuth, cerium, phosphoric acid, tungsten, niobium and tantalum etc.

It will be a standard reference book for professionals, entrepreneurs, engineers, those studying and researching in this important area and others interested in the field of non ferrous, precious metals and electroplating chemicals.

Content

1. SILVER

Extraction by Chloridizing Roasting

Extraction by Cyanidation

Recovery from Base Metal Ores

Parke's Process

Silver Production in India

Silver Nitrate

Industrial Applications

Photography

2. GOLD

Extraction of Gold

Amalgamation Process

Chlorination Process

Cyanidation Process

Gold Extraction in India

Compounds of Gold

3. COPPER

Uses

Harmful Impurities in Copper

Pyrometallurgical Extraction of Copper

Sources of Copper

Extraction of Copper from Sulphide Ores

Concentration

Roasting

Smelting

Converting

Slagging Stage

Blister Formation Stage

Refining

Fire Refining

Electrolytic Refining

Newer Processes for Copper Extraction

Flash Smelting

Continuous Copper Production

WORCRA Process

Noranda Process

Mitsubishi Process

Smelting Furnace

Slag-cleaning Furnace

Converting Furnace

TORCO Segregation Process

Energy Concepts in Copper Smelting

Hydrometallurgy of Copper

Ferric Chloride Leaching

Leaching of Low-Grade Ores

Leaching of Roasted Sulphide Concentrates

Production of Copper in India

Indian Copper Complex

Khetri Copper Complex

Compounds of Copper

4. COMPLEX SALTS OF COPPER, SILVER AND GOLD

Complex Compounds of Silver

Complex Salts of Gold

5. MAGNESIUM

Uses

Nonstructural Uses

Alloying

Deoxidation and Desulphurization

Modifying Structure of Graphite in Cast Irons

Pyrotechnics and Photography

Cathodic Protection

Structural Uses

Magnesium Ores

Methods of Magnesium Extraction

Magnesium from Sea-Water

Pidgeon Process

Equipment and Operation

Reaction Mechanism
Energy Required for the Pidgeon Process
Magnotherm Process
Magnesium Production in India
NML Process
CECRI Process
Magnesium
Dow Process
Electrolysis of Magnesium Chloride

6. CHROMIUM

Uses
Occurrence
Metal Extraction
Electrolytic Chromium
Chrome Alum Process
Chromic Acid Process

7. PLATINUM GROUP OF METALS

Extraction of Platinum Group Metals
Compounds of Platinum

8. NICKEL

Uses
Extraction of Nickel by Pyrometallurgy
Extraction from Sulphide ores
Nickel Sulphide Ore Processing at Sudbury (Canada)
Smelting of Nickel Concentrate
Carbonyl Process for Refining Nickel
Electrolytic Refining of Nickel
Extraction of Nickel from Oxide Ores
Pyrometallurgical Processing
DTA (Differential Thermal Analysis) of Lateritic Ores
Selective Nickel Reduction
Reduction Smelting
Ferronickel Production
Matte Smelting
Pyrometallurgical Processing followed by Hydrometallurgy
Ammoniacal Leaching
Other Leachants
Pyrometallurgical Processing followed by Carbonylation
Hydrometallurgy
Hydrometallurgy of Nickel Sulphide Concentrates

Other Metals from Sulphide Ores

Compounds of Nickel

9. ZINC

Uses

Extraction of Zinc

Sources of Zinc

Pyrometallurgical Extraction of Zinc

Horizontal Retort Reduction

Vertical Retort Reduction

Hydrometallurgical Extraction of Zinc

Imperial Smelting Process (ISP)

Production of Other Metals by ISP

Lead Recovery

Precious Metals Recovery

Copper Recovery

Arsenic, Antimony, and Bismuth Recovery

Tin Recovery

Cadmium Recovery

Zinc from Lead Slags by Slag Fuming

Production of Zinc in India

HZL Debari Plant

Treatment of Complex Sulphides of Lead, Copper and Zinc

Gravity Concentration

Differential Flotation

Retort Distillation

Electrolysis

Liquation

Rectification

Lead Blast Furnace Smelting

Selective Roasting

Reverberatory Smelting

Hydrometallurgical Treatment of Complex Sulphides

Solvent Extraction

Compounds of Zinc and Cadmium

10. LEAD

Uses

Extraction of Lead

Occurrence

Treatment of Ore and Production of Metal

Treatment of Base Bullion

Drossing

Parke's Process for Desilverization of Lead

Dezincing

Debismuthizing

Electrolytic Refining

Modern Developments in Lead Smelting

Outokumpu Flash Smelting

Direct Smelting in Converter

Flash Smelting with Oxygen

KIVCET Process

WORCRA Process

Q-S Process

TBRC (Top-Blown Rotary Converter) Smelting

Production of Lead in India

Tundoo Plant

Tundoo Blast Furnace

Lead Refining

Compounds of Lead

1. Lead monoxide or litharge PbO

2. Red lead, Pb_3O_4

3. Lead dioxide, PbO_2

4. Basic Lead Carbonate or White Lead, $\text{Pb}(\text{OH})_2 \cdot 2\text{PbCO}_3$ —Dutch Process, Carter's Process, Electrolytic Process

11. ALUMINIUM

Uses

Aluminium Ores

Extraction of Aluminium

Bayer Process for Alumina Production

Factors Affecting Bayer Process

Hall-Heroult Process

Decomposition Potential of Al_2O_3 Dissolved in Cryolite

Influence of Hydrogen or Methane Injection at Anode

Actual Decomposition Potential

Electrolytic Reduction Cell

Cell Operation

Role of Cryolite in Electrolysis

Theory 1

Theory 2

Factors Influencing Electrolysis

Electrolytic Refining of Aluminium

Methods of Treating Low-Grade Ores

Lime Sinter Process

Deville-Pechiney Process

Serpeck Process

Production of Aluminium in India

The Alumina Plant at Hindalco

The Reduction Plant at HINDALCO

Environmental Considerations in Aluminium Production

Newer Processes for Aluminium Production

ALCOA Process

Toth Process

ALCAN Process

Properties of Aluminium: Physical

Compounds of Aluminium

Ceramics Industry

12. MERCURY

Extraction of Mercury

Compounds of Mercury—Experimental evidences to show that mercurous ion is Hg_2^{2+}

13. COBALT

Compounds of Cobalt

14. SODIUM

Production of Sodium

Downs's Process

15. SODIUM CHLORIDE

16. SODA ASH

Soda Ash, The Commercial Sodium Carbonate

Solvay Process

Soda Ash from Other Sources

Soda Ash Related Products

17. SODIUM SULFATE

Salt Cake

18. GLAUBER SALT

19. HYDROCHLORIC ACID

20. SODIUM SILICATE

Bromine and Bromides

21. SODIUM SULFIDES

22. SODIUM THIOSULFATE

23. SODIUM BISULFITE, ANHYDROUS

24. SODIUM HYPOSULFITE (HYDROSULFITE)

Caustic Soda and Chlorine

Electrolysis of Brine
The Electrolytic Cell
Purification of the Salt Solution
Diaphragm Cells
Concentration of the Caustic Liquor
The Mercury Cell
Hydrogen Disposal
Other Processes for the Production of Chlorine

25. LIQUID CHLORINE

Bleaches

26. HYDRIDES OF BORON

Historical

Methods of Preparation

Properties

Chemical

Oxyacids of Boron

Orthoboric Acid, H_3BO_3

Properties

Borax, $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ Preparation

Properties

Perboric Acid and Perborates

Preparation

Properties

Structure

Industrial Applications

27. SILICON

Hydrides of Silicon

Silicon Tetrahydride, Silicane, or Monosilane, SiH_4

Preparation

Properties

Silicoethane, Disilicane, or Disilane, Si_2H_6

Properties

Silicopropane, Trisilicane or Trisilane, Si_3H_8

Preparation

Properties

Silicobutane, Tetrasilicane or Tetrasilane, Si_4H_{10}

Silicopentane, Si_5H_{12} and Silicohexane, Si_6H_{14}

Silico-acetylene, $(\text{Si}_2\text{H}_2)_n$

Structural Considerations

Short Note on Silicones

Structure of Silicates

Simplest Silicates

Mixed Silicates

Three Dimensional Networks—Felspar and Zeolites

Water Softening

Regeneration

Ultramarine

Halogen Compounds of Silicon

Silicon Tetrafluoride SiF_4

Hydrofluosilicic Acid, H_2SiF_6

Silicon Tetrachloride

Active silica

28. SULFURIC ACID

Uses of Sulfuric Acid

Kinds of Acid

The Manufacture of Sulfuric Acid

Development of the Sulfuric Acid Industry

The Chamber Process for Making Sulfuric Acid

The Contact Process

29. NITRIC ACID

Processes

Uses of Nitric Acid

30. AMMONIUM NITRATE

31. HEXAMETHYLENETETRAMINE

32. HYDRAZINE

Manufacture

Stabilization

33. UREA

Uses of Urea

34. HYDROGEN CYANIDE

35. ACRYLONITRILE

36. MELAMINE

37. AMINES

38. ANILINE

39. ISOCYANATES

Other Nitrogen Compounds

40. PHOSPHORUS

Manufacture of Phosphorus

Modern Electric Process

Manufacture in India

Purification

Smithel's Cold Flame

Luminescence

Manufacture of Red Phosphorus

Hydrides of Phosphorus

Phosphorus Trihydride, or Phosphine PH_3

Properties

Phosponium Iodide, PH_4I

Hydrogen Hemiphosphide, P_2H_4

Hydrogen Diphosphide, P_{12}H_6

Other Hydrides of Phosphorus

Oxides of Phosphorus

Phosphorus Tetritoxide, P_4O

Properties

Phosphorus Hemtoxicide, P_2O

Phosphorus Trioxide, P_4O_6

Properties

Structure

Phosphorus Tetroxide, P_2O_4

Preparation

Properties

Phosphorus Pentoxide, P_2O_5

Modes of formation

Preparation

Manufacture

Properties

Chemical

Industrial Applications

Structure

Oxyacids of Phosphorus

Hypophosphorous Acid, H_3PO_2

Properties

Detection

Evaluation

Phosphorous Acid, H_3PO_3

Preparation

Properties

Constitution

Pyrophosphorus Acid, $\text{H}_4\text{P}_2\text{O}_5$

Preparation

Properties

Constitution

Metaphosphorous Acid, $(\text{HPO}_2)_n$

Preparation

Properties

Hypophosphoric Acid, $\text{H}_4\text{P}_2\text{O}_6$

Preparation

Structure

Orthophosphoric Acid, H_3PO_4

Manufacture

Thermal Process

Volatilization Process

Properties

Constitution

Orthophosphates

Preparation

Detection

Evaluation

Pyrophosphoric Acid, $\text{H}_4\text{P}_2\text{O}_7$

Preparation

Properties

Constitution

Metaphosphoric Acid, (HPO_3)

Preparation

Permonophosphoric Acid, H_3PO_5

Perdiphosphoric Acid, $\text{H}_4\text{P}_2\text{O}_8$

Halogen Compounds of Phosphorus

Phosphorus Trichloride

Phosphorus Pentachloride, PCl_5

Phosphoryl Chloride, POCl_3

41. TIN

Uses

Concentration of Tin Ores

Smelting of Tin Concentrate

Reverberatory Furnace Smelting

Rotary Furnace Smelting

Refining of Tin

Pyrometallurgical Refining of Tin

Electrolytic Refining of Tin

Compounds of Tin

42. FERROALLOYS

General Methods of Producing Ferroalloys

Beneficiation

Carbon Reduction

Aluminothermic Reduction

Analysis of Aluminothermic Reduction of Manganese Ores

Aluminothermic Process Versus Carbothermic Process

Refining of Ferroalloys

Production of Individual Ferroalloys

Ferromanganese

Ferrosilicon

Ferrochromium (Ferrochrome)

Charge Chrome

Ferrotitanium

Ferrotungsten

Ferromolybdenum

Ferrovanadium

Compounds of Iron

43. MANGANESE

Uses

Electrolytic Manganese

Compounds of Manganese

44. ANTIMONY

Extraction of Antimony

45. BISMUTH

Extraction of Bismuth

46. CADMIUM

Production of Byproduct Cadmium

47. CERIUM

Compounds of Cerium

48. PHOSPHORIC ACID

Production of Elemental Phosphorus and Phosphoric Acid

Industrial Phosphates

Wet-Process Phosphoric Acid

49. INDIUM

Properties

Methods of Manufacture

Commercial Grades

Indium Compounds

Oxides

Chlorides

Bromides

Iodides

Fluorides

Sulfides

Sulfates

Nitride

Other Salts

Indium Alkyls

Other Organic Indium Compounds

Methods of Analysis

Procedure

50. TUNGSTEN

Uses

Occurrence and Extraction

51. VANADIUM

Uses

52. NIOBIUM AND TANTALUM

Sources of Niobium and Tantalum

Extraction of Niobium and Tantalum

Niobium and Tantalum in India

53. MOLYBDENUM

Molybdenite Roasting

54. TITANIUM

Sources of Titanium

Treatment of Ilmenite for Upgradation

Electric Smelting of Ilmenite

Acid Leaching of Ilmenite

Halogenation of Ilmenite

Upgradation Processes

Smelting of Ilmenite: Sorel Process

Direct Acid Leaching of Ilmenite

Hydrochloric Acid Digestion of Ilmenite

Sulphuric Acid Digestion of Ilmenite

Solid-State Reduction of Ilmenite Followed by Iron Removal

Preferential Chlorination of Ilmenite

Chlorination of TiO_2

Production of Metallic Titanium by Reduction of Titanium Tetrachloride

Kroll's Process

Production of Ductile Titanium

Theory of Titanium Chloride Reduction by Sodium (Hunter's Process) and Magnesium (Kroll's Process)

Sodium Reaction

Magnesium Reduction

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