

Production, Manufacturing and Extraction of

*Silver, Gold, Copper, Magnesium, Chromium,
Platinum, Nickel, Zinc, Lead, Aluminium, Mercury,
Sodium, Silicon, Sulfuric Acid, Nitric Acid,
Hydrazine, Phosphorus, Tin, Ferroalloys, Phosphoric
Acid, Indium, Titanium*

(Electroplating and Chemicals)

Introduction

Electroplating is a process that uses electrical current to reduce dissolved metal cations so that they form a coherent metal coating on an electrode. Electroplating is both an art and science. The purpose of this book is to enrich the people with an understanding of the theoretical background to Electroplating and Allied Chemicals, which is essential if the practical results are to be as required.

Electroplating involves passing an electric current through a solution called an electrolyte. This is done by dipping two terminals called electrodes into the electrolyte and connecting them into a circuit with a battery or other power supply. The electrodes and electrolyte are made from carefully chosen elements or compounds. When the electricity flows through the circuit they make, the electrolyte splits up and some of the metal atoms it contains are deposited in a thin layer on top of one of the electrodes—it becomes electroplated. All kinds of metals can be plated in this way, including gold, silver, tin, zinc, copper, cadmium, chromium, nickel, platinum, and lead.

The major contents of this 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 – Antimony –Bismuth – Cadmium – Cerium – Phosphoric acid – Indium – Tungsten – Vanadium – Niobium and tantalum – Molybdenum –Titanium.

It also describes different methods of Magnesium extraction, Treating low grade ores, and methods of preparation of Hydrides.

This book contains different process flow diagrams. It is an excellent reference for engineers, researchers, practitioners, entrepreneurs and others involved in process.

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Our Approach

Requirement collection



Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation

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- *Corporates*
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- *Individual Entrepreneurs*
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- *Non-profit Organizations, NBFC's*
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- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitability Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

Sectors We Cover Cont...

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- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

Sectors We Cover Cont...

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
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