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About the Book

A man entering an industry soon finds that most of the products manufactured by his company are not synthetic or definite chemical compounds, but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in this field, if any, may be meager, scattered or antiquated. Formulation is a key process in the overall life cycle so that products are delivered that is of the right quality, at a competitive cost, and is made available within the specified time scale. A formula is an entity constructed using the symbols and formation rules of a given logical language. In science, a specific formula is a concise way of expressing information symbolically as in a mathematical or chemical formula. The chemical formula identifies each constituent element by its chemical symbol and indicates the number of atoms of each element found in each discrete molecule of that compound. If a molecule contains more than one atom of a particular element, this quantity is indicated using a subscript after the chemical symbol and also can be combined by more chemical elements. It is all in the formula, whose implications also remain undiscovered by modern economists. It plays a major role in every process whether it is manufacturing process or preservation. There is a big importance of formula in our life because formulas and equations deal with everyday things like shapes, investments, mixing things, movement, lighting, travel and a host of other things they provide information you can use in planning activities.
This book basically deals with the extracting oil from cottonseed, silver nitrate test for cottonseed oil, solid linseed oil, decolorizing or bleaching linseed oil, linseed oil for varnish making, refining linseed oil, mineral oil, leather stuffing grease, leather adhesion grease, liquid belting lubricant, belt adhesion compounds, belt preserving grease, government harness dressing, rubber belt dressing (non static), wire drawing lubricant, wire drawing composition, metal drawing lubricant, cold drawing metal lubricant, drawing compound for aluminum, brass drawing lubricating emulsion, sheet steel drawing lubricant, non seizing threads and gaskets, machine tool lubricant, slushing oil for metal protection
horse shoe grease etc.
This book is an invaluable resource of the formulae of petroleum, lubricants, fats, polishes, glass, ceramics, nitrogenous fertilizers, emulsions, leather and insecticides. This book present several hundred advanced product formulations for household, industrial and other applications. The purpose of publishing this book is very useful for chemists, entrepreneurs, existing units, technocrats and engineering students.

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Rod Lubricant
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Furniture, Lacquer Enamel and Polished
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Floor Finish
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For Polished Floors
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Heat and Sound Insulation
Sound and Heat Insulation
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Wood Preservative Against Termites
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Building Plaster
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Beryllium Bronze
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4052-M
Bunting #98â€“SAE 62â€“GMC 4048-Mâ€“Similar to ASTM B-10-18
Bunting # 162â€“GMC 4075-M
Bunting Alloy No. 72â€”GMC 4182-M
Bunting # 96â€“SAE 63â€“Similar to GMC 4046-M
Bunting # 27â€“SAE 64â€“GMC 4050 Mâ€“ASTM-B-31-21
Bunting #135â€”Similar to SAE 67â€”GMC-4056-M
Bunting #124â€”SAE #66â€” GMC-4054-M
Bunting #125
Bunting # 161
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Copper Alloy Stable to Steam
Non-Staining Copper Alloy
Machinable Copper-Base Alloy
Copper-Iron Electrical Alloy
Silver Electrical Contact Alloy
Electrical Contact Alloy

Hardening Magnesium Alloys
Cable Sheath Lead Alloy
Bearing Metal Alloys
Die Casting Alloy
Pattern Alloy
Low Temperature Aluminum Brazing Alloy
Aluminum Alloy Resistant to Sea Water
Melting Aluminum Turnings
Non-Blistering Aluminum Castings
Hard Strong Aluminum Alloy
Hard and Low Thermal Expansion Aluminum Alloy
Hints on Spraying Babbitt Metal
Red Brass
Imitation Gold
Coating Metals with Lead
Watch Compensating Spring Alloy
Pen Nibs
Pen Point Alloy
Hard Pen-Nib Alloy
Low Temperature Thermometer Alloy
Electrical Contact Alloy
Low Expansion Lead-In Wire for Electric Bulbs
Non-Corrosive Lead-In Wire for Gas Filled Lamps
Tungsten Wire Forming Compound
Discharge Lamp Electrode Alloy
Hot Cathode Electrode
Lead Alloy for Storage Battery Anodes
Frictional Alloy
Heat Hardening Spring Steel Alloy
Alloys Resistant to Hot Caustic Solutions
Ferro-Chromium
Pouring Fusible Metal Models
Overcoming Lead Sweat
Type Metal Dross Reducer
Dental Plate Alloy
Dental Amalgam Alloy
Dental Amalgamating Alloy
Dental Pin Alloy
Tooth Straightening Metal Alloy
Dental Plate Alloy
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Dental Alloy
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Tempering Powders (Steel)
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Annealing Hack-Saw Blades and Files
Hardening or Tempering Copper
Acid Resistant Lining
Cementations-Bath for Iron and Steel 327
Case Hardening Centrifugal, Ferrous
Castings
Case Hardening Steel
Steel Hardening Mixture
Hardening Steel
Antimony Surface Hardening of Metals
Case Hardening Composition
Case Hardening Cast Iron Piston Rings
Iron Cementing
Inhibitor, Steel Pickling
Steel Nitriding inhibitor
Coating for Ingot Molds
Preventing Cavities and Segregation in
Steel Ingots
Plastic Lead
Malleable Cast Iron
Coating for Sand Molds for Light Metal Casting
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Ferritic Alloysâ€"USS 17 and USS 27
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Acetylene Welding
Electric Resistance Welding
Spot and Line Welding
Flash Welding
Atomic Hydrogen Welding
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Riveting
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Annealing USS Stabilized 18-8
Annealing USS 17 and USS 27
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Drawing and Forming
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Spinning
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Grinding, Polishing, Buffing and Brushing
Grinding
Polishing
Buffing
Brushing
Abrasives
Buffing Compounds
Brushing Compound
Grinding, Polishing and Buffing Wheel and their Preparation
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Finishing Procedures
Selection of Commercial Sheet Finishes
Matching Mill Polished Finishes
Finishâ€"Mirror Finish
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Pickling Iron
Stainless Steel Pickling Solution
Removing Oxide Films from Metals
Pickling Bath for Duralumin
Recovery of Waste Pickling Solutions
Pickling Inhibitor
Stripping Metal Coatings
Metal Cleaner and Brightener
Anodic Oxidation of Aluminum
Anode, Treatment of Aluminum
Brightening Aluminum
Rapid Cleaning of Mercury
Reclaiming Water-Logged Electric Tools
Cleaning a Rusted Rifle
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Antique Coloring of Metals
Green Coloring of Metals
Coloring Brass Plate Brown
Coloring Iron-Blue
Coloring Cadmium Black
Coloring Cadmium Brown
Coloring Iron-Black
Bronzing Copper and Its Alloys
Bronzing Iron or Steel
Permanent Blacking Galvanized Sheet Metal
Bright Dip for Cast Bronze
Oxidizing Finish for Brass
Blackening Cast Iron

Gun Metal Coloring of Pencil Tips
Bluing Steel Articles
Bluing Small Machine Parts
Treatment of Aluminum Before Plating
Protective Aluminum Coating
Coating Iron with Molten Aluminum
Enameling Iron
White Enamel for Cast Iron
Enamel Coating for Copper
Radium Protection Sheathing
Corrosion Preventive Coating
Metallographic Etching of Zinc and Alloys Etching Fluid
Molybdenum Etching Solution
Copper Etching Fluids
Printing Plate Etch, Copper
Copper Printing Plate Etch
Etch for Microscopic Study of Tin
Stainless Steel Etches
Micrographic Etch for Lead Specimens
Metal Etching Mordant
Etching Designs on Copper
Purifying Metallic Cadmium
Removing Welding Scale from Stainless Steel
De-Scaling Stainless Steel
Descaling Iron
Removing Fire Scale from Bronze
Gas Free Aluminum
Dephosphorizing Steel
Removing Residual Calcium from Lead
Copper Oxide Rectifier Metal
Removal of Aluminum Oxide from Alloys
Wear Resistant Iron Surface
Brazing Flux
Brazing Solder
Stop-off Paste for Use in the Silver Brazing of Monel
Galvanizing Flux
Welding Rod Flux
Flux Coating for Welding Electrode
Flux for Welding Zinc
Torch Welding Flux
Soldering Fluxes
Liquid, Non-Acidic
For Tin and Baser Metals
For Copper Wires
For All Metals Except Aluminum
General Soldering Fluxes
Soldering Flux
Iron and Steel Soldering Flux
Aluminium Chloride
Soft Soldering Flux
Easy Spreading Soldering Flux

Flux for Silver Soldering Stainless Steel
Aluminum Solder
Aluminum Plate Solder
Aluminum Cable Solder
Solder for Aluminum or Cast Iron
Copper to Aluminum Solder
Duralumin Solder
Solder
Soft Solder
Solders for Monel
Low Tin Solder
Silver Soldering
Soldering Iron Tip
Quick Solders, Rose's Metal
Soldering Fluids
Soldering Pastes
Soldering Powders
For Cast Iron
For Aluminum
For Iron, Copper and Brass
For Aluminum
Arc Welding Electrodes
Welding Electrode
Resistance Welding Electrode
Welding Flux
Fluxes for Aluminum Welding
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Brass Welding Rod
Non-Fuming Brass Welding Rod
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Cadmium Refining Flux
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Hot Tinning Cast Iron
Hot Tinning of Copper
Hot Tinning Tableware
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The Tinning of Copper Tubes
The Tinning of Steel Hollow-Ware
The Tinning of Copper Wire
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The Tinning of Miscellaneous Articles
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Black Iron Stain for Bust Prevention
Rust Remover
Rustproofing Composition
Rust Removal
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Corrosion Proofing Aluminum
Corrosion Proofing Iron
Corrosion Resistant Radiator Pipe
Brass, Corrosion Resistant
Coating Iron Strips with Carbon
Foundry Core
Foundry Mold Coating, Asphalt
Foundry Mold Wash for Green Sand
Regenerating Foundry Core and Molding Sand
Copper Mold Dressing
Mold for Casting Stainless Steel
Molds for Precision Castings
Nickel Casting Facing
Care of Platinum Vessels
Tumbling Castings
Aluminum Powder
Froth Flotation Compound
Froth Flotation Agent for Oxide Ores
Froth Flotation Cleaning of Fire Clays
Recovering Tin from Scrap Tin Plate
Recovering Tin from Dross
Cutting Wire Cable
Reconditioning Steel Splice Bars
Impregnation of Metals
Non-Oil-Wetting Metal Surfaces
Freeing Frozen (Stuck) Pistons
Steel and Iron Identification
Seasoning (Drying) Wood
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Foamed Glass
Coating for Optical Lenses
Coating for Optical Lens
Solder Glass
Typical Flux for Glass Color
Dry Process Ground Coat Enamels for Cast Iron
Dry Process Cover Coat Enamels for Cast Iron
Batches for Matte Glazes
Wollastonite Satin and Matte Glazes
Single-Application Textured Glazes

Two-Coat Textured Glazes
Base Coat Glazes
Overspray Glazes
Batches for Gloss Glazes
Zirconium Silicate
High-Temperature Glazes for Sanitary Ware
Low-Expansion Glazes for Vitreous Bodies
Batches for Fast-Fire Glazes on Talc or Wollastonite Bodies
5. LEATHER
Hide and Skin Preservative
Degreaser for Hides
Leather Bleaching
Bleaching Tanning Extract
Syntan
Fat Liquor
Synthetic Tanning Emulsion
Leather Finish
Antiseptic Leather
Mildewproofer for leather Goods
Fireproofing Emulsion for Leather
Chlorinated Paraffin
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Finish for Split Leather
6. PETROLEUM REFINERY PROCESSES AND PETROLEUM PRODUCTS
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Conversion of Petroleum Fractions
Purification of Petroleum Fractions
Extraction of Components and Blending Techniques
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Motor Fuels
Heating and Illuminating Oils
Lubricants
Other Oils
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Asphalts
Oil Wastes
Petroleum Products for Petrochemical
Synthetic Petroleum Products

7. NITROGENOUS FERTILIZERS
Nitrogenous Fertilizers and the Cyclic Process of Plant Nutrition
Significance of Inorganic Nitrogenous Fertilizers
8. PYROTECHNICS AND EXPLOSIVES
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Military Oxygen-Generating Candle
Ignition Cone for Oxygen Candles
Smoke Grenade Fuse Trains

First-Fire Charge
Delay Charge
Ignition Charge
Nondetonating Gas Charge
Fuse Powder
Extrudable Fusee
Extruded Fuse
Gasless Fuse Powder
Delay-Fuse Powder
Railroad Signal Flare
Yellow Signal Flare
Railroad Signal Torpedo
Devilâ€™s Step on the Walk
Incendiary Igniter
Blasting-Cartridge Discharger
Electric-Blasting Detonator
Plastic Nonhardening Explosive
Unsheathed Safety-Explosive Cartridge
Match Heads
Tracer-Projectile Igniter
Fuse Powder
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9. AMMONIUM PHOSPHATES AND AMMONIUM POLYPHOSPHATES

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Manufacturing Methods
Ammonium Polyphosphates
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Methods of Analysis
Manufacture
Preparation of the Neutral Urease Solution
Manufacture
Urea in Agriculture
Use
Ureaform
Chemical and Physical Properties
Agronomic Aspects of Ureaform
Method of Analysis
Manufacture of Ureaform
Ureaform in Mixed Fertilizers
Uses
Mixed Fertilizers
11. MANUFACTURE OF ORDINARY SUPERPHOSPHATE
Production Technology of Simple Superphosphate

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Materials
Manufacture of Superphosphate
Additional Operations
Sulphuric Acid as a Raw Material in the Manufacture of Superphosphate
Transport and Storage of Sulphuric Acid
Reactions Occuring in Superphosphate Manufacture
Stoicheiometric Amount of Sulphuric Acid and Peculiarities of the Decomposition Reaction
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Fast Curing of Superphosphate
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Phosphate Metering Devices
Acid Metering Devices
Mixing of Raw Materials
Automation of Metering and
Preparation of Raw Materials
Dens for Superphosphate Manufacture
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Storage and Conditioning of Super- phosphate
12. EMULSIONS, DISPERSIONS AND FOAMS
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Chlorinated Solvent Emulsions
Oil Emulsions
Cocoa Butter Emulsion
Benzyl Benzoate Emulsion
Methyl Salicylate Emulsion
Sulfathiazole Emulsion
Glycol Ester Resin Emulsions
DDT Emulsion
Nonaethylene Glycol Oleate
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Low Viscosity Wax Emulsions
Irish Peat Wax Emulsion
Acrawax Emulsion
Acrawax C Emulsion
Fatty Acid-Amide Emulsion Commercial Octadecane Amide
Soluble Mineral Oil Emulsions
Derivation of the Optimum Formula
Soluble Vegetable and Animal Oil Emulsions
Soluble Solvent Emulsions
Industrial Mineral Oil Emulsion
Cutting Oil Emulsion
Soluble Oils
Soluble Neatsfoot Mineral Oil
Soluble Pine Oils
Emulsions with Pectin
Zein Dispersion
13. INSECTICIDES, FUNGICIDES AND WEED KILLERS
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Silicone Insect Repellent Emulsion
Insect Repellent Sticks
Clothing Insecticide Impregnant
Insecticide Cone (Burning)
Aerosol Spray Concentrate
Fumigant Insecticical Tablets
Wettable Powder Insecticide
Insecticide Emulsion
Lindane Emulsion
Methyl Parathion Emulsion Concentrate
Methyl Parathion Dust Concentrate
â€œStrobaneâ€• Formulations for Liquid Sprays
Aerosols
65% â€œToxapheneâ€• Emulsifiable
Concentrate (Cationic)
45% Chlordane Emulsifiable
Concentrate (Cationic)
85% Chlordane Emulsifiable
Concentrate (Nonionic)
Phosdrin Insecticide Dust
Endrin Insecticide Emulsion Concentrate
Endrin Insecticide Dust
Dieldrin Emulsifiable Concentrate
Dieldrin Insecticide Base
Aldrin Wettable Powder Insecticide
Aldrin-DDT Emulsifiable Concentrate
DDT Insecticide
DDT Dispersion Concentrate
25% DDT Emulsifiable Concentrate
(Cationic)
DDT-Oil Larvicide
Self-emulsifying Agricultural Spray Oil
Agricultural Spray Adhesive
Cattle & Space Fly Spray
Aerosol Cattle Fly Spray
Mothproofing Aerosol
Peanut Storage Fumigant
Grain Fumigant
Nonflammable Fumigant
Increased Flash Point Fumigant
Dog Repellent
Rodenticide & Rat Repellent
For Cordage & Sacks
Plant Defoliant
Borax Weed Killer
Rope Preservative Fungicide
Agricultural Fungicide
Citrus Fruit Fungicide
Oak Wilt Fungus Spray
Insect Repellent Stick for the Skin
Insect Repellent

Self-Propagating Thermal Insecticide
Self-Vaporizing Insecticide
Insecticide Aerosols
Herbarium Aerosol Insecticide
Aerosol-Generating Propelling Composition
Protecting Stored Tobacco Leaf
Grape-Vine Fungicide

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