

# Selected Formulary Book on Petroleum, Lubricants, Fats, Polishes, Glass, Ceramics, Nitrogenous Fertilizers, Emulsions, Leather and Insecticides

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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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Wax Paste Stove Polish  
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Oven Polish  
Oven Polish Emulsion

Oven Polish, White  
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Wax Paste Polish  
Emery Polishing Paste  
Wax Polish  
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Norwegian Klister (Ski) Waxes  
Ski Wax  
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Black Glass  
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Luminescent Glass  
Photoluminescent Glass  
X-Ray Absorption Glass  
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Ceramic Underglaze Color Medium for Stencil Color Printing  
Ceramic, Overglaze Decoration Coating  
Preventing Efflorescence of Silicate Coatings  
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Acid Resistant Cement  
Clinkerless Slag Cement  
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Toughened Cement  
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Dental Plaster Accelerator  
Accelerator for Setting of Plaster of Paris  
Cement Setting Accelerator  
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Joint Compound  
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Gas-Proof Concrete  
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Heavy Concrete  
Refractory  
Refractory Resistant to Caustic  
Refractory Furnace Bricks  
Petroleum Retort Lining  
Plaster Molds for Roofing Tile  
Graphite-Silicon Carbide Refractory  
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Sound Absorbing Composition  
Acoustical Plaster  
Acoustic Wall Board  
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Heat and Sound Insulation  
Sound and Heat Insulation  
Sound and Heat Insulating, Artificial  
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Thermal Insulation  
Plastic Heat Insulation  
Spark Plug Insulator  
Electrical Insulation  
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Boiler Insulation  
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Wood Preservative Against Termites  
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Wall Plaster or Mortar  
Building Plaster  
Gypsum Plaster Retarders  
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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  
Hot Working Copper Alloys  
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  
Non-Blackening Silver Dental Alloy  
Dental Alloy  
Gold Sponge Dental Filling  
Heat Treatment of Spring and Alloy Steels  
Colors Developed in Heating of Steel  
Heat Treatment of Manganese Steel  
Heat Treating Transformer Steel  
Carbonization of Nickel Cathodes  
Thermal Treating Bath for Light Metals  
Tempering Powders (Steel)  
Steel Spring Quenching Emulsion  
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  
Copper Foundry Mold Dressing Paste  
Foundry Mold (Casting) Powder  
Fabrication and Treatment of Uss Stainless and Heat Resisting Steels  
Joining of USS Stainless and Heat Resisting Alloys  
Welding  
Austenitic Alloys  
Ferritic Alloysâ€™USS 17 and USS 27  
Ferriticâ€™Martensitic Alloyâ€™USS 12  
Electric Arc Welding  
Acetylene Welding  
Electric Resistance Welding  
Spot and Line Welding  
Flash Welding  
Atomic Hydrogen Welding  
Finishing of Stainless Steel Welds  
Soldering  
Silver Soldering

Brazing  
Riveting  
Annealing  
Annealing USS Stabilized 18-8  
Annealing USS 17 and USS 27  
Annealing USS 12  
Removal of Oxide and Scale Pickling  
Sandblasting  
Machining and Cutting Operations Machining  
Drilling  
Threading  
Sawing  
Punching and Shearing  
Perforating  
Drawing and Forming  
Application of Finishes  
Spinning  
Finishing of Fabricated Articles  
Grinding, Polishing, Buffing and Brushing  
Grinding  
Polishing  
Buffing  
Brushing  
Abrasives  
Buffing Compounds  
Brushing Compound  
Grinding, Polishing and Buffing Wheel and their Preparation  
Coarse Grinding Wheels  
Fine Grinding and Polishing Wheels  
Buffing Wheels  
Finishing Procedures  
Selection of Commercial Sheet Finishes  
Matching Mill Polished Finishes  
Finishâ€™Mirror Finish  
Miscellaneous Finishes  
Pickling Metals  
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  
Coloring Metals  
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  
Welding Powder  
Brass Welding Rod  
Non-Fuming Brass Welding Rod  
Welding Rod  
Iron Welding Rod  
Flux for Cadmium and Its Alloys  
Cadmium Refining Flux  
Steel Dephosphorizing and Desulphurizing Flux  
Metal Melting Flux (For Down-Draft Furnaces)  
Bearing Metal  
Tinning Gray Cast Iron  
Temperature Control Important  
Hot Tinning Cast Iron  
Hot Tinning of Copper  
Hot Tinning Tableware  
Tinning Milk Cans  
Testing Tin Plate Pores  
The Hot-Tinning of Fabricated Articles

The Tinning of Copper Tubes  
The Tinning of Steel Hollow-Ware  
The Tinning of Copper Wire  
The Tinning of Steel Wire  
The Tinning of Cast Iron  
The Tinning of Miscellaneous Articles  
Rustproofing Composition  
Rust Cleaning and Rust Proofing  
Rustproofing Iron  
Rustproofing for Iron and Steel  
Rustproofing Steel (Phosphatizing)  
Black Iron Stain for Rust Prevention  
Rust Remover  
Rustproofing Composition  
Rust Removal  
Anti-Tarnish Bags for Silver  
Silver Tarnish Inhibitor  
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  
4. CERAMICS AND GLASS

Glass Electrode Seal  
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  
Mildewproofing for leather Goods  
Fireproofing Emulsion for Leather  
Chlorinated Paraffin  
Belt-Traction Dressing  
Fur-Carrotting Solution  
Finish for Split Leather

## 6. PETROLEUM REFINERY PROCESSES AND PETROLEUM PRODUCTS

Introduction  
Petroleum Fractionation (Distillation)  
Conversion of Petroleum Fractions  
Purification of Petroleum Fractions  
Extraction of Components and Blending Techniques  
Gases  
Motor Fuels  
Heating and Illuminating Oils  
Lubricants  
Other Oils  
Petroleum Waxes and Petroleum  
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

Military Smoke

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  
Devil'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  
Flashless Military Propellant  
9. AMMONIUM PHOSPHATES AND AMMONIUM POLYPHOSPHATES

Ammonium Phosphates  
Principal Reactions  
Properties  
Production Considerations  
Manufacturing Methods  
Ammonium Polyphosphates  
Production Methods  
Applications

#### 10. CHEMISTRY AND PROCESSING OF UREA AND UREAFORM

Urea  
Physical and Chemical Properties  
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

Preparation of the Raw

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

Stoichiometric Amount of Sulphuric Acid and Peculiarities of the Decomposition Reaction

Main Technical-Analytical Indices of Superphosphate Manufacture

Manufacturing Indices of Ordinary Superphosphate from Vietnam

Phosphorite

Fast Curing of Superphosphate

Apparatus used in Superphosphate Manufacture

Phosphate Metering Devices

Acid Metering Devices

Mixing of Raw Materials

Automation of Metering and

Preparation of Raw Materials

Dens for Superphosphate Manufacture

Equipment for Trapping Fluorine-Containing Gases

Storage and Conditioning of Super- phosphate

## 12. EMULSIONS, DISPERSIONS AND FOAMS

Hydrocarbon Solvent Emulsions

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

Viscous Wax and Grease Emulsions

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

Insect Repellent

Silicone Insect Repellent Emulsion

Insect Repellent Sticks  
Clothing Insecticide Impregnant  
Insecticide Cone (Burning)  
Aerosol Spray Concentrate  
Fumigant Insecticidal Tablets  
Wettable Powder Insecticide  
Insecticide Emulsion  
Lindane Emulsion  
Methyl Parathion Emulsion Concentrate  
Methyl Parathion Dust Concentrate  
• Formulations for Liquid Sprays  
Aerosols  
65% • 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

## About NIIR

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