



# Pocket Ref, 3rd Ed.

by Thomas J. Glover

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retail

*The ultimate reference and problem solver!*

*The uses for this book are endless!*

768 pages of information for do-it-yourselfers, engineers, craftsmen, students, teachers, managers, maintenance & industrial personnel and travelers.

## ♦ Air and Gases

Composition of Air  
Physical Properties of Air  
Densities of Gases  
Standard Atmosphere Definition  
General Gas Laws & Formulas  
Density of Moist Air  
Elevation vs. Air & Water Properties  
Air Tool CFM & PSI Requirements  
CFM vs. PSI for Various Nozzle Sizes  
Air Hose Friction & Pressure Loss  
Air Line Recommended Sizes  
Air Receiver Capacities  
Air Pollution Safe Limits

## ♦ Automotive

Miles per Gallon Fuel Chart  
Vehicle Miles Traveled Chart  
Vehicle Hours to Travel a Distance Chart  
Antifreeze Table  
Spark Plug Torque  
Lead-Acid Battery Specific Gravity/Charge  
Oil Viscosity vs. Temperature  
Auto Headlight Warning  
Automotive Trailer Wiring  
Automotive Electric Wiring  
Load Index vs. Load, P-metric & Euro Tires  
Tire Size vs. Load Rating  
Tire Size Coding & Manufacturer Codes  
Load Range vs. Ply Rating  
Automotive Formulas

## ♦ Carpentry & Construction

Softwood Lumber Size and Grade  
Hardwood Lumber Size and Grade  
Wood Moisture Content  
Plywood & Panel Grading  
Wood Characteristics  
Pressure Treated Lumber  
Insulation Value of Materials  
Maximum Floor Joist Spans  
Strength of Wood Beams  
Wood Gluing Characteristics  
Concrete & Mortar  
Hand Signals for Hoist and Crane

## ♦ Chemistry & Physics

Element Tables & Properties  
Periodic Table of the Elements  
pH of Common Acids & Bases  
pH Indicators  
Elementary Particles  
Radioisotope Half Lives  
Uranium-238 Decay Series  
Galvanic Series of Metals in Seawater

## ♦ Computers

Computer ASCII Codes  
Megabytes and Kilobytes

## ♦ Physical, Chemical & Math Constants

## ♦ Electrical

Current Capacities for Copper & Aluminum Wire  
Copper Wire Resistance  
Standard Copper Wire Specs  
Wire Classes & Insulation  
Standard Wire Color Codes  
Wire Size vs. Voltage Drop  
Conduit Size vs. Wire Size  
Box Size vs. Number of Wires  
Average Electric Motor Specs  
NEMA Electric Motor Frames  
NEMA Electric Enclosure Types  
DC Motor Wiring Specs

HP vs. Torque vs. RPM for Motors  
World Electric and TV  
NEMA Electric Connectors  
World Telephone Connectors

## ♦ Electronics

Resistor Color Codes  
Resistor Standard Values (5% Class)  
Capacitor Color Codes  
Capacitor Standard Values  
Pilot Lamp Specs  
Fuses - Small Tube Type  
Battery Characteristics  
Batteries - Sizes & Capacities  
RF Coil Winding Data  
Wire Size vs. Number of Turns/Inch  
Decibels vs. Voltage & Power Ratios  
Formulas for Electricity

## ♦ First Aid

CPR, Heimlich Maneuver, Bites, Broken Bones, Burns, Choking, Diabetic, Emergencies, Electric Shock, Eye Injuries, Frostbite, Head and Spine Injuries, Heat Emergencies, Heart Attack, Hypothermia, Nose Injuries, Poisoning, Puncture Wounds to the Torso, Seizures, Shock, Stroke

## ♦ General Information

Holidays, Season & Clock Dates  
Signs of the Zodiac  
Flowers for each Month, Birthstones  
Anniversary Names  
Proof Reading Marks  
Paper Sizes, Plastic Recycling Symbols  
English-Greek Alphabet, Phonetic & Braille Alphabet, Semaphore Alphabet  
Morse Code, "Ten" Radio Codes  
Military Rank and Grade  
Chili Pepper Hotness Scale  
Bed Sizes  
Clothing Sizes - USA vs. European  
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Social Security Numbers by Location  
State Population, Abbreviations, Capitals  
State Info, Flower, Bird & Admit. Date  
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Telephone Area Codes by Area Code  
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Major World Airports & Elevations  
Airline Two Letter Codes  
Airline 1-800 Phone Numbers  
Lost Credit Card Phone Numbers  
Car Rental 1-800 Phone Numbers  
Country Codes - 2 and 3 Letter

## ♦ General Science

Temperature Conversions °F- °C  
Sound Intensities  
Human Body Composition  
Body Weight vs. Height  
Physical Growth % - Boys & Girls  
Life Expectancy Statistics  
Firewood/Fuel Heat Comparisons  
Frequency Spectrum  
Acceleration Due to Gravity  
Sun and Planetary Data  
Torino Asteroid Destruction Scale

## ♦ Geology

Mineral Tables  
Element to Oxide Conversions

Minerals Sorted by Density & Hardness  
Distinct Color Minerals  
Gold, Silver & Diamond Classifications  
Mineral Crystal System  
Minor Elements in Sedimentary Rocks  
Minor Elements in Igneous Rocks  
Igneous Rock Classification  
Igneous Rock Classes by Color  
Sedimentary Rock Classes  
Metamorphic Rock Classes  
Geochemical Lower Detection Limits  
Mohs Scale of Hardness  
Particle Size Descriptions  
Richter & Mercalli Earthquake Scales  
Core Drill Specs  
Geologic Time Scale

## ♦ Glues, Solvents, Paints & Finishes

## ♦ Hardware

Steel Bolt & Screw Grades, Types & Classes  
Clamping Force & Bolt Torque-Carbon Steel Bolts  
Unified Inch Screw Threads - Standard Screw Thread Series  
Clearance Holes for Bolts & Screws - Inch & Metric Series  
Bolt Head Styles Chart  
Whitworth Bolt Torques  
Nails  
Approx. Hole Sizes for Wood Screws  
Sheet Metal Screw Specs  
Drive Styles

## ♦ Math

Numeric Prefixes, Roman Numerals  
Convert Inch-Foot-mm-Drill #  
Squares, Cubes and Roots  
Degrees, Radians & Trig Functions  
Log, Log e, Circumference & Circle Area  
Right & Oblique Triangle Formulas  
Plane & Solid Figure Formulas

## ♦ Mine, Mill & Aggregate

Standard Sieve Series  
Mineral Dressing Sizing Scale  
Stockpile Volume and Weight  
Material Dumping Angles  
Rock Bulking Factors  
Length of Conveyor Belt in a Roll  
Conveyor Slope Angle Maximums  
Conveyor Capacities  
Conveyor Horsepower vs. Load  
Jaw Crusher Horsepower vs. Tons/Hour

## ♦ Money

Currency Exchange Rates  
Discount Factors for Net Present Value  
Simple & Compound Interest  
Numbered Days of the Year

## ♦ Plumbing and Pipe

Plastic, Steel & Copper Pipe and Tubing  
Steel Pipe Formulas  
Steel Pipe - Pressure Ratings of Sch 40

## ♦ Rope, Cable & Chain

Cable Clips for Wire Rope  
Chain, Strength and Weight  
Feet of Wire Rope on a Drum or Reel  
Load Capacity Loss due to Line Angle  
Rope & Wire Rope - Strength & Weight  
Knots and Bends

## ♦ Steel & Metals

Steel Wire & Steel Sheet Gauges  
Steel Plate Sizes

Wire and Sheet Specifications  
Channel Steel, Angle Steel, Tee Steel, Round Bar Steel, Square Bar Steel, Hexagonal Bar Steel, Octagonal Bar Steel, Flat Steel, Square Steel  
Tubing, Rectangular Steel Tubing, Round Steel Tubing

Aluminum Types  
Density & Melting Points of Metals, Alloys & Elements  
Hardness Number Conversions  
Thermal Expansion Coefficients

## ♦ Surveying and Mapping

Percent Grade to Degrees  
Stadia Formula & Table  
Formulas to Create Stadia Table  
Mapping Scales and Areas  
Apparent Dip Table  
Three Point Problem  
Magnetic Declination Map

## ♦ Tools

American National Taps and Dies  
Metric & British Taps and Dies  
British Association Standard Thread  
American Standard Taper Pipe Thread  
American Standard Straight Pipe Thread  
Drill and Cutting Lubricants  
Drilling Speed vs. Material  
Fire Extinguishers  
Sandpaper and Abrasives  
Power Circular Handsaws & Saber Saws  
Capacities of Hydraulic Rams in Tons  
Tons of Force Required to Punch Metals

## ♦ Water

Friction Loss in Various Pipe & Fittings  
Suction, Head & Vapor Press vs. Altitude  
Horizontal & Vertical Pipe Discharge  
Nozzle Discharge  
Weir Discharge Volumes  
Horizontal Cylinder Fillage  
Steam Table  
Water Pollution, Hardness & Formulas

## ♦ Weather

Beaufort Wind Strength Scale  
Fujita-Pearson Tornado Intensity Scale  
Hurricane Intensity Scale  
Wind Chill Factors  
Heat - Humidity Factors  
Ice Thickness Safety  
Cold Water Survival Time  
Weather Map Symbols & Cloud Types

## ♦ Weights & Properties of Materials

## ♦ Welding

Arc Electrodes - Mild Steel  
Electrode Amperages  
Electrodes - Low Alloy & Stainless Steel  
Electrode Brand Conversion (Steel)  
Gas Welding Rods  
Welding Gases  
Hard and Soft Solder Alloys  
Solder Flux  
Tempering Color for Steel

## ♦ 3500 Conversion Factors

## ♦ Perpetual Calendar

## ♦ Detailed Index

## ♦ and Much, Much More!