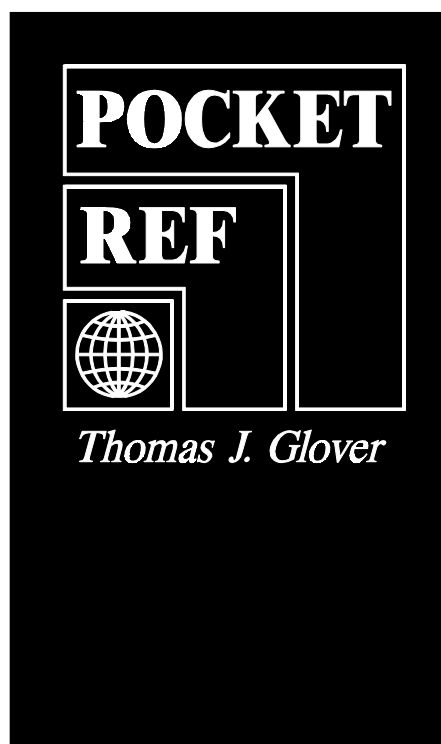


ERRATA
for
POCKET REF
2nd Edition



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Introduction

Thanks to everyone who has notified Sequoia Publishing of errors, typos or a need for clarification in **Pocket Ref!** If you find additional errors, please let us know. This document is a compilation of errors, changes, updates and additions made to **Pocket Ref**, 2nd Edition. The printing number in which a change was made is shown in a bold, underlined italic typeface. Each change is listed by its page number and the name of the Table. You need only review errors in the printing number sections greater than the printing number listed on the second page of your **Pocket Ref** (for example, if you have a copy of the 2nd Edition, 4th printing, only those changes listed in the 5th printing and higher affect you).

2nd Printing: (August, 1995)

Page 350..... *Steel Pipe Formulas*, formula should read “Moment of Inertia in inches⁴ = $0.0491 \times (D^4 - d^4)$ ”

Page 375..... *Percent Grade to Degrees*, formula should read

$$\text{" Gradient = 1 unit in } \frac{\text{Horizontal Distance}}{\text{Vertical Rise Distance}} \text{ units or } 1: \frac{H}{V} \text{ "}$$

Additions/Updates for the 2nd Printing: Pages 50-68, *Carpentry & Construction*, added definition of “Dead” and “Live” loads. Page 312, *Right Triangle Trig Formula*, added “Area = (a b) /2 ”

3rd Printing: (October, 1995)

Page 8..... *Physical Properties of Air*, Density of dry air at Standard Temperature and Pressure should read “1.2928 kilograms/cu meter = 0.08071 pounds/cu foot”

Page 8..... *Universal Gas Constant (R)*: 0.0821 liter-atmosphere/K/mole = 8.31441 joule/K/mole

Page 8..... *Standard Reference Conditions*, should read “ Standard Pressure = 760 mm Hg = 14.696 pounds-force/sq inch = 2116.22 pounds-force/sq foot = 29.92 inch Hg = $1.01325 \times 10^5 \text{ N/m}^2$ = $1.01325 \times 10^5 \text{ Pa} = 101.325 \text{ kPa}$ ”

Page 9..... *Densities of Gases*, Paragraph under table, last line, volumn figures should read “22.41 liters = 0.02241 cubic meters = 0.7914”

Page 9..... *Standard Atmosphere*, Equivalents to 1 atmosphere should read “10.3322 meters of water”, “406.782 inches of water”, added “101.325 kilopascal”

Pages 70-72..... *Carpentry & Construction*, Wood Species, heading reversed, should be “Wet and Dry”

Page 231..... *Mineral Tables*, Samarskite should read “ (Y,Ce,U,Ca,Fe,Pb,Th) (Nb,Ta,Ti, Sn)₂O₆”

Page 272..... *Bolt Torque Specificaions*, Standard Dry Torque, SAE Grade 3 and Grade 5, columns are reversed starting with 794 and 872 respectively to last numbers 5427 and 4550

Page 273..... *Bolt Torque Specifications*, Standard Dry Torque, SAE Grade 7 and Grade 8, column numbers, 700 and 840 only, are reversed

Page 356..... *Steel Wire Gauges*, this table has been reworked, expanded and corrected. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 386..... *American National Taps & Dies*, Thread size # 3, Fine Threads, Tap Drill should read #46 and Tap Decimal Inch should read 0.0810. Thread size 1inch, Fine Threads, Tap Drill should read 59/64 and Tap Decimal Inch should read 0.9219. Thread size 1 1/2, Course Threads, Tap Drill should read 1-11/32 and Tap Decimal Inch should be 1.3438

Page 410..... *Head Loss/100 feet Pipe Due to Friction: C-90*, Pipe Diameter 4 inches at a flow of 150 gpm should read 3.2; a flow of 200 gpm should read 5.4; a flow of 250 gpm should read 8.2; a flow of 300 gpm should read 11.5; a flow of 400 gpm should read 19.5; a flow of 500 gpm should read 29.5; a flow of 600 gpm should read 41.3; a flow of 700 gpm should read 55.0; a flow of 800 gpm should read 70.4; a flow of 900 gpm should read 87.5

Page 418..... *Friction Loss in Pipe Fittings*, Headings “ Feet of Head Loss per Joint @ Diameter (inches)” changed to read “Equivalent feet of pipe caused by joint @ diam. inch”

Page 424..... *Water Pollution*, this table has been reworked, updated and corrected. Call Sequoia Publishing, Inc. to have a current copy of this page sent to you if needed

Page 443..... *Flux*, “Resin” should read “Rosin”
Page 447..... *Conversion Tables*, Atmospheres, “Tons (short) /sq inch and /sq foot” replaced with “Tons-force (short) /sq inch and /sq foot”
Page 498..... *Conversion Tables*, “Roentgens” should read “Rontgens”

Additions/Updates for the 3rd Printing: Page 9, *Densities of Gases*, added Air “@ STP”. Page 32, Automotive Formulas, added Fuel Consumption formula; Page 166 and Page 169, North American Area Codes by State, added new area codes

4th Printing: (December, 1995)

Additions/Updates for the 4th Printing: Page 167, *North American Area Codes by STATE*, added New York Cellular Phone number; Page 172, North American Area Codes by CODE, added New York Cellular Phone number.

5th Printing: (January, 1996)

No changes

6th Printing: (March, 1996)

Page 80-82 *Element Tables*, Antimony, Atomic Weight should read 121.760; Iridium, Atomic Weight should read 192.217; Iron, Atomic Weight should read 55.845; Mendeleevium, Atomic Weight should read (256.094); Polonium, Atomic Weight should read (209.9828); Promethium, Atomic Weight should read (144.9127); Protactinium, remove parenthesis from Atomic Weight; Radon, Atomic Weight should read (222.0114);
Page 93..... *Uranium-238 Decay Series*, ²³⁴U, Uranium, Half-Life should read 245,000 years
Page 120..... *Voltage Drop vs. Wire size*, this page has been reworked, updated and corrected. Call Sequoia Publishing, Inc. to have a current copy of this page sent to you.
Page 104..... *Megabytes and Kilobytes*, 1 gigabyte = 2³⁰ bytes = exactly 1,073,741,824 bytes; 1 terabyte = 2⁴⁰ bytes = exactly 1,099,511,627,776 bytes; 1 petabyte = 2⁵⁰ bytes = exactly 1,125,899,906,842,620 bytes
Page 106..... *Constant Symbol Value*, Earth, equatorial radius = value of 6378.137 km, 3963.16 mi; Earth, polar radius = value of 6356.752 km, 3949.90 mi
Page 124..... *Nema Electric Motor Frames*, Motor Frame 284TS with Frame Dimension F should read 4-3/4 and M+N should read 12-3/4. Motor Frame 284U with Frame Dimension M+N should read 14-3/8. Motor Frame 365U with Frame Dimension M+N should read 18-3/8
Page 153..... *Holidays*, Vermont, Bennington Battle Day should read August 16 not June 16
Page 160..... *Military Rank & Grade*, this table has been reworked, updated and corrected. Call Sequoia Publishing, Inc. to have a current copy of this page sent to you if needed
Page 164..... *Time Zones in the World*, Guam, U.S. Terr.....3:00, should read 3:00* to indicate next day
Page 214..... *Electromagnetic Frequency Spectrum*, Frequency 108-118 MHzAeronautical navigation should read 108-117.95 MHz....Aeronautical navigation
Page 389..... *American STD Taper Pipe*, pipe size 2 inch , tap drill size should read 2-7/32 not 1-7/32
Page 421..... *Weir Discharge Volumes*, this table has been reworked, updated and corrected. Call Sequoia Publishing, Inc. to have a current copy of this page sent to you if needed
Page 445..... *Conversion Tables*, Abbreviations Used in Conversion Tables, should read °R....Degrees Rankine, not Reaumur

Additions/Updates for the 6th Printing: Page 164, *Time Zones in the World*, added Dhaka, Bangladesh....23:00 and refined table. Page 177, *World Wide Area Codes by Location*, added two more cities. Page 181, *Airports-USA*, added more airports. Page 197, *Airline 1-800 Numbers*, added more numbers. Pages 167-168, *North American Area Codes by State*, added more codes. Pages 169-172, *North American Area Codes by Code*, added more codes. Pages 372, *Wrought Aluminum Tempering*, added more designations and descriptions. Pages 447 and 496, *Conversion Tables*, added more conversion factors

7th Printing: (April, 1996)

Page 11..... *Theoretical Horsepower to Compress Air*, formula corrected to read as follows:
 $HP = 0.2267 Q \{[(PSI / 14.7)+1]^{0.283} - 1\}$, HP = Theoretical horsepower, Q = System air flow rate in cubic feet per minute, PSI = Outlet gage pressure in pounds force per square inch, Conditions: (1) dry air at sea level, atmospheric pressure = 14.7 psi (2) single stage adiabatic compression.

8th Printing: July, 1996)

Page 19..... *CFM vs. PSI For Nozzles*, this table has been reworked, updated and corrected. Call Sequoia Publishing, Inc. to have a current copy of this page sent to you if needed

Page 142..... *RF Coil Winding Data*, Case 3, "Multiple Layer" not "Single Layer"

Page 214..... *Electromagnetic Frequency Spectrum*, Frequency 118-136.MHz should read 118-135.95MHz.....Civil Communication Band

Additions/Updates for the 8th Printing, Page 152 *Holidays*, added Washington's Birthday, Feb.22. Page 429-430, *Weights of Materials*, added additional information on cement, concrete and cork. Page 505, *Conversion Tables*, added Tons-refrigeration.

9th Printing: (October, 1996)

Page 82..... *Element Tables*, Technetium, Atomic Weight should read (97.9072); Titanium, Atomic Weight should read 47.867; Tungsten, Atomic Weight should read 183.84.

Page 150..... *Electronics*, Formulas for Electricity, Length of an Antenna, added clarification after Quarter-wave antenna and Half-wave antenna: (ordinary wire, velocity factor=0.95).

Page 463..... *Conversion Tables*, Fifth into pony should read 25.6.

Page 474..... *Conversion Tables*, Jiggers into Pints should read 0.09375, and Jiggers into Pony should read 1.5.

Page 491..... *Conversion Tables*, Ounces (US,flu) into Ponys should read 1.0

Page 493..... *Conversion Tables*, Pints (US, liq) into jiggers should read 10.6

Page 494..... *Conversion Tables*, Pints (US, liq) into Ponys should read 16.0

Additions/Updates for the 9th Printing, *General Information*, Pages 165-179, Area Codes by State and by Code have been updated.

10th Printing: (January, 1997)

Page 8..... *Physical Properties of Air*, equation for Density of dry air and Universal Gas Constant (R) corrected.

Page 158..... *General Information*, Morse Code, [: should read ---...] [(should read ---.] [) should read -.-.-]

Page 386..... *Tools*, American National Taps & Dies, under Fine Threads, Threads/inch, 1 inch should read 12 threads to the inch.

Page 447..... *Conversion Tables*, Amperes into Microamperes Multiply by 1×10^6 .

Page 484..... *Conversion Tables*, Microamperes into Amperes Multiply by 1×10^6 .

Additions/Updates for 10th Printing, *Air and Gases*, Page 8, Physical Properties of Air, improved accuracy, Density of dry air at Standard Temperature and Pressure: should read 1.29274 kilograms/cu meter = 0.080703. Universal Gas Constant (R): should read 0.08206 liter atmosphere/mole kelvin = 8.31451 joule/mole kelvin. *General Information*, Pages 165-172, Area Codes by State and by Code have been updated. *Weights of Materials*, Page 430, added Down, goose & duck, Page 431, added Feathers, goose & duck.

11th Printing: (March, 1997)

Page 158..... *General Information*, Morse Code, [- -...- should read = -...-]

Page 187..... *General Information*, Airports-USA, Chancock Intl should read Hancock Intl.

12th Printing: (July, 1997)

No changes.

13th Printing: (September, 1997)

Page 34..... *Carpentry & Construction*, Softwood Lumber Sizes, table reworked. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 37..... *Carpentry & Construction*, Softwood Lumber Grading, table reworked. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 160..... *General Information*, Military Grade & Rank, the word Warrent corrected to Warrant.

Page 214..... *General Science*, Electromagnetic Frequency Spectrum, 118-135.95 Mhz now reads Civil **Aviation** Communication Band.

Page 275..... *Hardware*, Bolt Torque Specifications, table reworked. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 313..... *Math*, Oblique Triangle Formulas, numerous changes. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 315..... *Math*, Plane Figure Formulas, Sides of Equilateral Triangle corrected.

Page 334..... *Money*, Currency Exchange Rate, table updated. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 464..... *Conversion Tables*, Foot Pound-Force, numerous corrections. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 524..... *Calendar*, Calendar Year vs. Calendar Number, 1896 should read C# 14 and 2019 C# 9.

Additions/Updates for 13th Printing, *General Information*, Pages 165-172, Area Codes by State and by Code have been updated.

14th Printing: (January, 1998)

Page 9..... *Air and Gases*, Densities of Gases, Nitrogen Density (lb/cu ft) should read 078072.

Page 80..... *Chemistry & Physics*, Element Tables, Bohrium, Dubnium, Hassium, Meitnerium, Rutherfordium are now approved names. Joliotium has been changed to Seaborgium.

Page 86..... *Chemistry & Physics*, Periodic Table of Elements, 104 should read Rf, 105 should read Db, 106 should read Sg and 108 should read Hs.

Page 354..... *Rope, Cable, & Chain*, Feet of Wire Rope on a Reel, clarification of wording.

Page 383..... *Survey & Mapping*, Three Point Problem, equation for finding point D, Length AD should read Length CD, AB elevation difference should read BC elevation. Dip Angle equation; replace Sin with Tan.

Additions/Updates for 14th Printing, *General Information*, Pages 165-172, Area Codes by State and by Code have been updated.

15th Printing: (May, 1998)

Page 14..... *Time Zones in the World*, Add * after 0:00 to Bangkok, Thailand; Ho Chi Minh, Vietnam and Jakarta, Indonesia. Tashkent, Uzbekistan should read 23:00 not 22:00.

Page 167..... *General Information*, North American Area Codes by State, Massachusetts, NE side of state should read 987 not 918.

Page 183..... *Airports-USA*, Airport name of "National" should read Reagan National with elev. of 16 ft.

Page 213..... *General Science*, Firewood/ Fuel Comparisons, table reworked. Please call Sequoia Publishing to have a current copy of this page sent to you if needed.

Page 429..... *Weights of Materials*, Cement, Portland, should read Specific Gravity 1.51 not 1.03. Weight lbs per cu yard should read 2538 not 1728. Weight kgs per cu meter should read 1506 not 1025.

16th Printing: (Aug, 1998)

No changes.

17th Printing: (October, 1998)

No changes.

18th Printing: (November, 1998)

No changes.

19th Printing: (February, 1999)

No changes.

20th Printing: (April, 1999)

No changes.

21st Printing: (June, 1999)

No changes.

