

TABLE 1-7 Common Units and Conversion Factors*

Mass (M)		1 pound mass = 453.5924 grams = 0.45359 kilograms = 7000 grains 1 slug = 32.174 pounds mass 1 ton (short) = 2000 pounds mass 1 ton (long) = 2240 pounds mass 1 ton (metric) = 1000 kilograms = 2204.62 pounds mass 1 pound mole = 453.59 gram moles
Length (L)		1 foot = 30.480 centimeters = 0.3048 meters 1 inch = 2.54 centimeters = 0.0254 meters 1 mile (U.S.) = 1.60935 kilometers 1 yard = 0.9144 meters
Area (L²)		1 square foot = 929.0304 square centimeters = 0.09290304 square meters 1 square inch = 6.4516 square centimeters 1 square yard = 0.836127 square meters
Volume (L³)		1 cubic foot = 28.31685 cubic centimeters = 0.02831685 cubic meters = 28.31685 liters = 7.461 gallons (U.S.) = 3.7853 liters 1 gallon = 231 cubic inches
Time (t)		1 hour = 60 minutes = 3600 seconds
Temperature (T)		1 centigrade or Celsius degree = 1.8 Fahrenheit degree Temperature, Kelvin = $^{\circ}\text{F}/1.8 + 273.15$ Temperature, Rankine = $^{\circ}\text{F} + 459.7$ Temperature, Fahrenheit = $5/9(^{\circ}\text{C} + 32)$ Temperature, centigrade or Celsius = $5/9(^{\circ}\text{F} - 32)$ Temperature, Rankine = $1.8^{\circ}\text{F}/\text{K}$
Force (F)		1 pound force = 4.448222 dynes = 4.448222 Newtons = 32.174 poundals
Pressure (F/L²)		Normal atmospheric pressure 1 atm = 760 millimeters of mercury at 0°C (density 13.5951 g/cm ³) = 29.921 inches of mercury at 32°F = 14.696 pounds force/square inch = 33.909 feet of water at 39.1°F = 1.01325×10^5 dynes/square centimeter = 1.01325×10^5 Newtons/square meter
Density (M/L³)		1 pound mass/cubic foot = 0.01601846 grams/cubic centimeter = 16.01846 kilograms/cubic meter
Energy (H or FL)		1 British thermal unit = 252.09 calories = 1054.4 joules = 777.97 foot-pounds force = 10.469 liter-atmospheres = 0.2930 watt-hour
Diffusivity (L²/t)		1 square foot-hour = 0.258 cm ² /s = 2.58×10^{-4} m ² /s
Viscosity (M/Lt)		1 pound mass/foot-hour = 0.00413 g/cm s = 0.000413 kg/m s 1 centipoise = 0.01 poise = 0.01 g/cm s = 0.001 kg/m s = 0.000672 lbfm/ft s = 0.0000209 lbfm/ft ²
Thermal conductivity [H/(L²t)]		1 Btu/hr ft ² (°F/ft) = 0.00413 cal/s cm ² (°C/cm) = 1.729 J/s m ² (°C/m)
Heat transfer coefficient		1 Btu/hr ft ² °F = 5.678 J/s m ² °C
Heat capacity (H/MT)		1 Btu/lbm °F = 1 cal/g °C = 42.84 J/kg °C
Gas constant		1.545 Btu/lbm mole °R = 1.987 cal/mol K = 82.057 atm cm ³ /mol K = 0.7302 atm ft ³ /lb mole °F = 10.73 (lbfm/ft ²) (ft ³ /lb mole °R = 1545 (lbfm/ft ²) (ft ³ /lb mole °R = 8.314 (N/m ²) (m ³ /mole K)
Gravitational acceleration		$g = 9.8066 \text{ m/s}^2$ = 32.174 ft/s ²

NOTE: U.S. customary units, or British units, on left and SI units on right.

 *Adapted from Fausst et al., *Principles of Unit Operations*, John Wiley and Sons, 1960.

TABLE 1-8 Kinematic-Viscosity Conversion Formulas

Viscosity scale	Range of ν , sec	Kinematic viscosity, stokes
Saybolt Universal	$32 < \nu < 100$ $\nu > 100$	$0.000226 - 1.05/\nu$ $0.000226 - 1.35/\nu$
Saybolt Furol	$25 < \nu < 40$ $\nu > 40$	$0.0224 - 1.54/\nu$ $0.0216 - 0.66/\nu$
Redwood No. 1	$24 < \nu < 100$ $\nu > 100$	$0.00260 - 1.79/\nu$ $0.00247 - 0.50/\nu$
Redwood Admiralty Engler		$0.027 - 20/\nu$ $0.00147 - 3.74/\nu$

TABLE 1-9 Values of the Gas-Law Constant

Temp. scale	Press. units	Vol. units	Wt. units	Energy units ^a	R
Kelvin	atm.	cm ³	g-moles	calories	1.9872
			g-moles	pound (cal)	8.3144
			g-moles	pound (int)	8.3136
			g-moles	atm cm ³	82.057
			g-moles	atm liters	0.08205
			mm Hg-liters		612.363
			ftm-liters		0.08314
			kg/cm ² (liters)		0.08475
			atm-ft ³		1.314
			mm Hg-ft ³		999.59
Rankine	atm.	ft ³	lb-moles	chm or pcu	1.5872
			lb-moles	ftm	1.5872
			lb-moles	lbfm-lb	4.0007903
			lb-moles	lbfm-lb	0.00028459
			lb-moles	atm-ft ³	0.7302
			mm Hg-ft ³		21.85
			mm Hg-ft ³		555.0
			lbfm/ft ² -ft ³		10.73
			lbfm/ft ² -ft ³		1545.0
			ft-lb		1.5450

^aEnergy units are the product of pressure units and volume units.

Engineering Unit Conversions Second Edition

Bonnie A. Osif



Engineering Unit Conversions Second Edition:

Engineering Unit Conversions Michael R. Lindeburg, 1993 With more than 4 500 conversions this book is the most complete reference of its kind and a great timesaver Comprehensive coverage of conversions in English and SI metric units in the fields of civil mechanical electrical and chemical engineering make this an essential reference for every engineer's bookshelf

Using the Engineering Literature, Second Edition Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of *Using the Engineering Literature* used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age *Using the Engineering Literature Second Edition* provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format

Design and Construction of Modern Steel Railway Bridges John F. Unsworth, 2017-08-03 This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial US Customary units It discusses the planning of railway bridges and the appropriate types of bridges based on planning considerations

Structural Engineer's Pocket Book British Standards Edition Fiona Cobb, 2020-12-17 The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables data facts and formulae needed for scheme design to British Standards by structural engineers in a handy sized format Bringing together data from many sources into a compact affordable pocketbook it saves valuable time spent tracking down information needed regularly This second edition is a companion to the more recent Eurocode third edition Although small in size this book contains the facts and figures needed for preliminary design whether in the office or on site Based on UK conventions it is split into 14 sections including geotechnics structural steel reinforced concrete masonry and timber and includes a section on sustainability covering general concepts materials actions and targets for structural engineers

Forty Three Graphic Tables Or Diagrams for the Conversion of Measurements in Different Units Robert Henry Smith, 1895

Enclosure Fire Dynamics, Second Edition Björn Karlsson, James G. Quintiere, 2022-06-27 *Enclosure Fire Dynamics Second Edition* explores the science of enclosure fires and how they cause changes in the

environment of a building on fire The authors discuss mechanisms controlling enclosure fires and how to develop analytical relationships useful in designing buildings for fire safety Derivation of equations from first principles is shown stating assumptions and showing comparisons to experimental data giving calculated examples for clarity The text provides readers with the skills needed to solve a range of engineering equations and problems Features include Describes the outbreak of compartment fires and the mechanisms controlling them Derives simple analytical relationships from first principles and shows how to compare the derived equations with experimental data giving calculated examples for clarity Provides the calculational procedures and describes computer models needed to design a building for safety Cites the most up to date standards and references throughout Includes numerous chapter problems to test student readers understanding of fire behavior Enclosure Fire Dynamics Second Edition will enhance the knowledge of fire protection engineers researchers and investigators and help build a strong foundation for engineering students

Handbook Of Accelerator Physics And Engineering (2nd Edition) Alexander Wu Chao, Maury Tigner, Frank Zimmermann, Karl-hubert Mess, 2013-03-25 Edited by internationally recognized authorities in the field this expanded and updated new edition of the bestselling Handbook containing more than 100 new articles is aimed at the design and operation of modern particle accelerators It is intended as a vade mecum for professional engineers and physicists engaged in these subjects With a collection of more than 2000 equations 300 illustrations and 500 graphs and tables here one will find in addition to the common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world s most able practitioners of the art and science of accelerators The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion beam environment beam beam beam electron beam ion and intrabeam interactions The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors real time feedbacks generation of short photon pulses bunch compression tuning of normal and superconducting linacs energy recovery linacs free electron lasers cooling space charge compensation brightness of light sources collider luminosity optimization and collision schemes Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration Hardware systems for particle sources feedback systems confinement and acceleration both normal conducting and superconducting receive detailed treatment in a subsystems chapter beam measurement techniques and apparatus being treated therein as well The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices A detailed name and subject index is provided together with reliable references to the literature where the most

detailed information available on all subjects treated can be found *Engineering Hydrology for Natural Resources Engineers* Ernest W. Tollner, 2023-08-14 This fully revised edition provides a modern overview of the intersection of hydrology water quality and water management at the rural urban interface The book explores the ecosystem services available in wetlands natural channels and ponds lakes As in the first edition Part I examines the hydrologic cycle by providing strategies for quantifying each component rainfall with NOAA 14 infiltration evapotranspiration and runoff Part II examines field and farm scale water quality with an introduction to erosion prediction and water quality Part III provides a concise examination of water management on the field and farm scale emphasizing channel design field control structures measurement structures groundwater processes and irrigation principles Part IV then concludes the text with a treatment of basin scale processes A comprehensive suite of software tools is available for download consisting of Excel spreadsheets with some public domain models such as HY 8 culvert design and software with public domain readers such as Mathematica Maple and TK solver

Guide to RRB Junior Engineer Civil 2nd Edition Disha Experts, Guide to RRB Junior Engineer 2nd Edition has 5 sections General Intelligence Reasoning General Awareness General Science Arithmetic and Technical Ability Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises The book provides the 2015 Solved Paper The detailed solutions to all the questions are provided at the end of each chapter The General Science section provides material for Physics Chemistry and Biology till class 10 There is a special chapter created on Computer Knowledge in the Technical section There is a special chapter created on Railways in the general awareness section The book covers 100% syllabus as prescribed in the notification of the RRB exam The book is also very useful for the Section Engineering Exam

Introduction to Flight Testing James W. Gregory, Tianshu Liu, 2021-05-07 Introduction to Flight Testing Introduction to Flight Testing Provides an introduction to the basic flight testing methods employed on general aviation aircraft and unmanned aerial vehicles Introduction to Flight Testing provides a concise introduction to the basic flight testing methods employed on general aviation aircraft and unmanned aerial vehicles for courses in aeronautical engineering There is particular emphasis on the use of modern on board instruments and inexpensive off the shelf portable devices that make flight testing accessible to nearly any student This text presents a clear articulation of standard methods for measuring aircraft performance characteristics Topics covered include aircraft and instruments digital data acquisition techniques flight test planning the standard atmosphere uncertainty analysis level flight performance airspeed calibration stall climb and glide take off and landing level turn static and dynamic longitudinal stability lateral directional stability and flight testing of unmanned aircraft systems Unique to this book is a detailed discussion of digital data acquisition DAQ techniques which are an integral part of modern flight test programs This treatment includes discussion of the analog to digital conversion sample rate aliasing and filtering These critical details provide the flight test engineer with the insight needed to understand the capabilities and limitations of digital DAQ Key features Provides an

introduction to the basic flight testing methods and instrumentation employed on general aviation aircraft and unmanned aerial vehicles Includes examples of flight testing on general aviation aircraft such as Cirrus Diamond and Cessna aircraft along with unmanned aircraft vehicles Suitable for courses on Aircraft Flight Test Engineering Introduction to Flight Testing provides resources and guidance for practitioners in the rapidly developing field of drone performance flight test and the general aviation flight test community

Scientific Unit Conversion Francois Cardarelli, 2012-12-06 Ph D in Chemical Engineering Postgraduate Degree in Electrochemistry M Sc in Physical Chemistry B Sc in Physical Chemistry and Nuclear Engineering in Geophysics and Geology Associate Degree Author Working Areas The successive author working areas since 1990 up to 1997 are in order I Research scientist at the Laboratory of Electrochemistry University Pierre 2 Research scientist at the Institute of Marine Biogeochemistry CNRS 3 Research scientist for the production of tantalum protective coatings for the chemical process industries by electro chemistry in molten salts 4 Research scientist for the preparation and characterization of IrOrbased Dimensionally Stable Anodes DSA for oxy gen evolution in acidic media used in industrial electrochemical processes Laboratory of Electrochemical Engineering Toulouse 5 Consultant in Electrochemical Engineering Toulouse 6 Battery Product Leader Argo Tech Productions Inc Boucheville Quebec Canada Contents List of Tables xiii 1 Introduction 1 1 1 Why a Conversion Handbook 1 1 2 How to Use This Book 2 2 The International System of Units 3 2 1 History 3 2 2 The General Conference on Weights and Measures 6 2 3 Organization of the SI 6 2 3 1 SI Base Units 7 2 3 2 SI Supplementary Units 9 2 3 3 SI Derived Units

SI Units in Engineering and Technology S.H. Qasim, 2016-04-06 SI Units in Engineering and Technology focuses on the use of the International System of Units Systeme International d Unit s SI The publication first elaborates on the SI derivation of important engineering units and derived SI units in science and engineering Discussions focus on applied mechanics in mechanical engineering electrical and magnetic units stress and pressure work and energy power and force and magnitude of SI units The text then examines SI units conversion tables and engineering data in SI units Tables include details on the sectional properties of metals in SI units physical properties of important molded plastics important physical constants expressed in SI units and temperature area volume and mass conversion Tables that show the mathematical constants standard values expressed in SI units and Tex count conversion are also presented The publication is a dependable source of data for researchers interested in the use of the International System of Units Systeme International d Unit s

Second Supplemental Appropriations for Fiscal Year 1976 United States. Congress. Senate. Committee on Appropriations, 1976

Piping and Instrumentation Diagram Development Moe Toghraei, 2019-04-02 An essential guide for developing and interpreting piping and instrumentation drawings Piping and Instrumentation Diagram Development is an important resource that offers the fundamental information needed for designers of process plants as well as a guide for other interested professionals The author offers a proven systemic approach to present the concepts of P water and wastewater treatment industries and food industries The author outlines the

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Information on the Metric System and Related Fields Ernst Lange, Valerie Antoine, 1974 *Conversion Factors* Colin J. Pennycuick, 1988-03-15 This invaluable reference manual provides well organized tables of over 2100 conversion factors for measures ranging from time and length to metabolic rate and viscosity An index defines each term acres dynes joules liters knots and so on Also included are guides to abbreviations to physical and technical dimensions and to the system internationale SI

Materials Handbook François Cardarelli, 2018-07-09 The unique and practical Materials Handbook third edition provides quick and easy access to the physical and chemical properties of very many classes of materials Its coverage has been expanded to include whole new families of materials such as minor metals ferroalloys nuclear materials food natural oils fats resins and waxes Many of the existing families notably the metals gases liquids minerals rocks soils polymers and fuels are broadened and refined with new material and up to date information Several of the larger tables of data are expanded and new ones added Particular emphasis is placed on the properties of common industrial materials in each class After a chapter introducing some general properties of materials each of twenty four classes of materials receives attention in its own chapter The health and safety issues connected with the use and handling of industrial materials are included Detailed appendices provide additional information on subjects as diverse as crystallography spectroscopy thermochemical data analytical chemistry corrosion resistance and economic data for industrial and hazardous materials Specific further reading sections and a general bibliography round out this comprehensive guide The index and tabular format of the book makes light work of extracting what the reader needs to know from the wealth of factual information within these covers Dr François Cardarelli has spent many years compiling and editing materials data His professional expertise and experience combine to make this handbook an indispensable reference tool for scientists and engineers working in numerous fields ranging from chemical to nuclear engineering Particular emphasis is placed on the properties of common industrial materials in each class After a chapter introducing some general properties of materials materials are classified as follows ferrous metals and their alloys ferroalloys common nonferrous metals less common metals minor metals

semiconductors and superconductors magnetic materials insulators and dielectrics miscellaneous electrical materials ceramics refractories and glasses polymers and elastomers minerals ores and gemstones rocks and meteorites soils and fertilizers construction materials timbers and woods fuels propellants and explosives composite materials gases liquids food oils resin and waxes nuclear materials food materials

Thermal Systems Design Richard J. Martin, 2022-01-26 **Thermal Systems Design** Discover a project based approach to thermal systems design In the newly revised Second Edition of **Thermal Systems Design Fundamentals and Projects** accomplished engineer and educator Dr Richard J Martin offers senior undergraduate and graduate students an insightful exposure to real world design projects The author delivers a brief review of the laws of thermodynamics fluid mechanics heat transfer and combustion before moving on to a more expansive discussion of how to apply these fundamentals to design common thermal systems like boilers combustion turbines heat pumps and refrigeration systems The book includes design prompts for 14 real world projects teaching students and readers how to approach tasks like preparing Process Flow Diagrams and computing the thermodynamic details necessary to describe the states designated therein Readers will learn to size pipes ducts and major equipment and to prepare Piping and Instrumentation Diagrams that contain the instruments valves and control loops needed for automatic functioning of the system The Second Edition offers an updated look at the pedagogy of conservation equations new examples of fuel rich combustion and a new summary of techniques to mitigate against thermal expansion and shock Readers will also enjoy Thorough introductions to thermodynamics fluid mechanics and heat transfer including topics like the thermodynamics of state flow in porous media and radiant exchange A broad exploration of combustion fundamentals including pollutant formation and control combustion safety and simple tools for computing thermochemical equilibrium when product gases contain carbon monoxide and hydrogen Practical discussions of process flow diagrams including intelligent CAD equipment process lines valves and instruments and non engineering items In depth examinations of advanced thermodynamics including customized functions to compute thermodynamic properties of air combustion products water steam and ammonia right in the user's Excel workbook Perfect for students and instructors in capstone design courses **Thermal Systems Design Fundamentals and Projects** is also a must read resource for mechanical and chemical engineering practitioners who are seeking to extend their engineering know how to a wide range of unfamiliar thermal systems

Applied Mechanics Reviews, 1995

Mass Transfer Operations for the Practicing Engineer Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems Both traditional and novel mass transfer processes receive treatment As with all of the books in this series emphasis is placed on an example based approach to illustrating key engineering concepts The book is divided into two major parts It starts with the principles underlying engineering problems showing readers how to apply general

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