

The Yaws Handbook Of Physical Properties For Hydrocarbons And Chemicals Second Edition Physical Properties For More Than 54000 Organic And C1 To C100 Organics And Ac To Zr Inorganics

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Matheson Gas Data Book - Matheson Company, inc 1971

Knovel Critical Tables - Knovel Corporation 2003

Handbook of Thermodynamic Diagrams: Organic compounds C1 to C4 - Carl L. Yaws 1996

Thermodynamic property data are important in many engineering applications in the chemical processing and petroleum refining industries.

Handbook of Viscosity: Organic compounds C8 to C28 - Carl L. Yaws 1995

Transport Properties of Chemicals and Hydrocarbons - Carl L. Yaws 2014-06-20

Covering more than 7,800 organic and inorganic chemicals and hydrocarbons, Transport

Properties of Chemical and Hydrocarbons, Second Edition is an essential volume for any chemist or chemical engineer. Spanning gases, liquids, and solids, the book covers all critical properties (including viscosity, thermal conductivity, and diffusion coefficient). From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab, or classroom use. By collecting a massive - but relevant - amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long-range projects. Simplifies research and

significantly reduces the amount of time spent collecting properties data. Compiled by an expert in the field, the book provides engineers with data they can trust. All critical properties are covered for ease of reference, including viscosity, thermal conductivity, and diffusion coefficient.

Multiphase Flow Dynamics 4 - Nikolay Ivanov Kolev 2011-09-25

The present Volume 4 of the successful monograph package "Multiphase Flow Dynamics" is devoted to selected Chapters of the multiphase fluid dynamics that are important for practical applications but did not find place in the previous volumes. The state of the art of the turbulence modeling in multiphase flows is presented. As introduction, some basics of the single phase boundary layer theory including some important scales and flow oscillation characteristics in pipes and rod bundles are presented. Then the scales characterizing the dispersed flow systems are presented. The

description of the turbulence is provided at different level of complexity: simple algebraic models for eddy viscosity, simple algebraic models based on the Boussinesq hypothesis, modification of the boundary layer share due to modification of the bulk turbulence, modification of the boundary layer share due to nucleate boiling. The role of the following forces on the mathematical description of turbulent flows is discussed: the lift force, the lubrication force in the wall boundary layer, and the dispersion force. A pragmatic generalization of the k-eps models for continuous velocity field is proposed containing flows in large volumes and flows in porous structures. A Methods of how to derive source and sinks terms for multiphase k-eps models is presented. A set of 13 single- and two phase benchmarks for verification of k-eps models in system computer codes are provided and reproduced with the IVA computer code as an example of the application of the theory. This methodology is intended to help other engineers

and scientists to introduce this technology step-by-step in their own engineering practice. In many practical application gases are solved in liquids under given conditions, released under other conditions and therefore affecting technical processes for good or for bad. Useful information on the solubility of oxygen, nitrogen, hydrogen and carbon dioxide in water under large interval of pressures and temperatures is collected, and appropriate mathematical approximation functions are provided. In addition methods for the computation of the diffusion coefficients are described. With this information solution and dissolution dynamics in multiphase fluid flows can be analyzed. For this purpose the non-equilibrium absorption and release on bubble, droplet and film surfaces under different conditions is mathematically described. A systematic set of internally consistent state equations for diesel fuel gas and liquid valid in broad range of changing pressure and temperature is provided. This new second

edition includes various updates, extensions, improvements and corrections. In many practical application gases are solved in liquids under given conditions, released under other conditions and therefore affecting technical processes for good or for bad. Useful information on the solubility of oxygen, nitrogen, hydrogen and carbon dioxide in water under large interval of pressures and temperatures is collected, and appropriate mathematical approximation functions are provided. In addition methods for the computation of the diffusion coefficients are described. With this information solution and dissolution dynamics in multiphase fluid flows can be analyzed. For this purpose the non-equilibrium absorption and release on bubble, droplet and film surfaces under different conditions is mathematically described. A systematic set of internally consistent state equations for diesel fuel gas and liquid valid in broad range of changing pressure and temperature is provided. This new second

edition includes various updates, extensions, improvements and corrections.

Handbook of Physical-Chemical Properties and Environmental Fate for Organic

Chemicals, Second Edition - Donald Mackay

2006-03-14

Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals. These processes are largely controlled by the chemicals' physical-chemical properties. This new edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is a comprehensive series in four volumes that serves as a reference source for environmentally relevant physical-chemical property data of numerous groups of chemical substances. The handbook contains physical-chemical property data from peer-reviewed journals and other valuable sources on over 1200 chemicals of environmental concern. The handbook contains new data on the temperature

dependence of selected physical-chemical properties, which allows scientists and engineers to perform better chemical assessments for climatic conditions outside the 20–25-degree range for which property values are generally reported. This second edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is an essential reference for university libraries, regulatory agencies, consultants, and industry professionals, particularly those concerned with chemical synthesis, emissions, fate, persistence, long-range transport, bioaccumulation, exposure, and biological effects of chemicals in the environment. This resource is also available on CD-ROM

Handbook of Aqueous Solubility Data -

Samuel H. Yalkowsky 2016-04-19

Over the years, researchers have reported solubility data in the chemical, pharmaceutical, engineering, and environmental literature for several thousand organic compounds. Until the

first publication of the Handbook of Aqueous Solubility Data, this information had been scattered throughout numerous sources. Now newly revised, the second edition of *Airframe and Powerplant Mechanics Powerplant Handbook* - United States. Flight Standards Service 1971

Purification of Laboratory Chemicals - W. L. F. Armarego 2003

Now in its fifth edition, the book has been updated to include more detailed descriptions of new or more commonly used techniques since the last edition as well as remove those that are no longer used, procedures which have been developed recently, ionization constants (pKa values) and also more detail about the trivial names of compounds. In addition to having two general chapters on purification procedures, this book provides details of the physical properties and purification procedures, taken from literature, of a very extensive number of organic,

inorganic and biochemical compounds which are commercially available. This is the only complete source that covers the purification of laboratory chemicals that are commercially available in this manner and format. * Complete update of this valuable, well-known reference * Provides purification procedures of commercially available chemicals and biochemicals * Includes an extremely useful compilation of ionisation constants

Handbook of Chemical Compound Data for Process Safety - Carl L. Yaws 1997-03-25

This book provides comprehensive safety and health-related data for hydrocarbons and organic chemicals as well as selected data for inorganic chemicals.

Prudent Practices in the Laboratory - National Research Council 2011-04-25

Prudent Practices in the Laboratory-the book that has served for decades as the standard for chemical laboratory safety practice-now features updates and new topics. This revised edition has

an expanded chapter on chemical management and delves into new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, *Prudent Practices in the Laboratory* provides guidance on planning procedures for the handling, storage, and disposal of chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. *Prudent Practices in the Laboratory* will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students.

Process Equipment Design - Lloyd E. Brownell
1959-01-15

A complete overview and considerations in

process equipment design Handling and storage of large quantities of materials is crucial to the chemical engineering of a wide variety of products. *Process Equipment Design* explores in great detail the design and construction of the containers - or vessels - required to perform any given task within this field. The book provides an introduction to the factors that influence the design of vessels and the various types of vessels, which are typically classified according to their geometry. The text then delves into design and other considerations for the construction of each type of vessel, providing in the process a complete overview of process equipment design.

Reservoir Engineering Handbook - Tarek H. Ahmed 2001

The job of any reservoir engineer is to maximize production from a field to obtain the best economic return. To do this, the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of

future development and production that will maximize the profit. Fluid flow, rock properties, water and gas coning, and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right, and some of the tools of the trade are water influx calculations, lab tests of reservoir fluids, and oil and gas performance calculations. Two new chapters have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry: Principles of Waterflooding, Vapor-Liquid Phase Equilibria.

Viscosity of Liquids - Dabir S. Viswanath
2007-03-31

This book is unique in that it brings together published viscosity data, experimental methods, theoretical, correlation and predictive procedures in a single volume. The readers will get a better understanding of why various methods are used for measuring viscosity of different types of liquids and why an

experimental method is dependent on fluid characteristics, such as Newtonian or non-Newtonian fluids.

Yaws Handbook of Thermodynamic Properties - Carl L. Yaws 2006

Written by one of the most prolific and well-respected chemical engineers in the industry, this is the most comprehensive and thorough volume ever written on the thermodynamic properties of hydrocarbons and chemicals. This volume covers the spectrum, including chapters on the heat capacity and entropy of gas, solids and liquids, the entropy of formation, and many other topics. The design of heat exchangers and other equipment for heating or cooling substances to temperatures necessary in process applications requires knowledge of heat capacity, covered in the first portion of the book. The heat effects of chemical reactions are ascertained from enthalpy of formation. Other chapters cover the Helmholtz energy of formation and internal energy of formation,

which is useful in modeling and ascertaining the energy of explosions. This coverage greatly exceeds the coverage of any other book and makes The Yaws Handbook of Thermodynamic Properties of Hydrocarbons and Chemicals a must-have for anyone working in the fields of chemical engineering, process engineering, refining and chemistry.

Thermophysical Properties of Chemicals and Hydrocarbons - Carl L. Yaws 2014-06-20

Compiled by an expert in the field, the book provides an engineer with data they can trust. Spanning gases, liquids, and solids, all critical properties (including viscosity, thermal conductivity, and diffusion coefficient) are covered. From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab or classroom usage. By collecting a large - but relevant - amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting

vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long range projects. Simplifies research and significantly reduces the amount of time spent collecting properties data Compiled by an expert in the field, the book provides an engineer with data they can trust in design, research, development and manufacturing A single, easy reference for critical temperature dependent properties for a wide range of hydrocarbons, including C1 to ClOO organics and Ac to Zr inorganics

Physical Properties of Hydrocarbons - Robert W. Gallant 1900

Airplane Flying Handbook (FAA-H-8083-3A)

- Federal Aviation Administration 2011-09-11
The Federal Aviation Administration's Airplane Flying Handbook provides pilots, student pi-lots, aviation instructors, and aviation specialists with information on every topic needed to qualify for

and excel in the field of aviation. Topics covered include: ground operations, cockpit management, the four fundamentals of flying, integrated flight control, slow flights, stalls, spins, takeoff, ground reference maneuvers, night operations, and much more. The *Airplane Flying Handbook* is a great study guide for current pilots and for potential pilots who are interested in applying for their first license. It is also the perfect gift for any aircraft or aeronautical buff.

The Yaws Handbook of Vapor Pressure - Carl L. Yaws 2015-03-12

Increased to include over 25,000 organic and inorganic compounds, *The Yaws Handbook of Vapor Pressure: Antoine Coefficients, 2nd Edition* delivers the most comprehensive and practical database source for today's petrochemical. Understanding antoine coefficients for vapor pressure leads to numerous critical engineering applications such as pure components in storage vessels, pressure

relief valve design, flammability limits at the refinery, as well as environmental emissions from exposed liquids, making data to efficiently calculate these daily challenges a fundamental need. Written by the world's leading authority on chemical and petrochemical data, *The Yaws Handbook of Vapor Pressure* simplifies the guesswork for the engineer and reinforces the credibility of the engineer's calculations with a single trust-worthy source. This data book is a must-have for the engineer's library bookshelf. Increase compound coverage from 8,200 to over 25,000 organic and inorganic compounds, including sulfur and hydrocarbons Solve process design questions quickly from a single reliable data source Locate answers easily for multiple petrochemical related questions such as bubble point, dew point temperatures, and vapor-liquid equilibrium

Yaws Handbook of Properties for Environmental and Green Engineering - Carl L. Yaws 2008

Environmental concern is becoming more and more prevalent in the energy field. Whether it is the elimination of waste from a chemical spill, water pollution or ecological destruction, the removal of pollutants is an increasingly upfront engineering priority. This extensive technical book contains all the basic environmental and green properties of hydrocarbons and chemicals that are advantageous in design, operations, research, development, manufacturing and safety for the petroleum, chemical and environmental engineer. Chapters involve octanol-water partition coefficient, a significant instrument of control in ascertaining the environmental fate of substances; soil sorption coefficient, an important property in determining the fate and transport of chemicals in soils and sediments; and the threshold limit value and permissible exposure limit, which was established by OSHA (Occupational Safety and Health Administration) and is significant for meeting governmental regulations. Providing

over 4,000 hydrocarbons and chemicals, this well-balanced handbook greatly exceeds the coverage that other chemical and environmental books render.

Matheson Gas Data Book - Carl L. Yaws 2001

The Proposed book is a new edition of the Matheson Gas Data book which is widely used in industrial facilities and research laboratories. The most recent edition sold 18,000 copies. The purpose of the new edition would provide expanded coverage of gases, and to cover more gases. The expanded coverage would encompass physical, thermodynamic, environmental, transport, safety, and health and related properties of gases of major importance. It will also cover known applications, government regulations, and first aid information. This book will be of interest to both the safety and engineering professional who use compressed gas.

Handbook of Thermal Conductivity, Volume 1 - Carl L. Yaws 1995-04-19

This reference provides engineers with values for thermal conductivity as a function of temperature for the major organic compounds. Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds - Carl L. Yaws 2003

The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals

- Marco Satyro 2018-02-01

Petroleum and chemical engineers are constantly looking for reliable data yet don't have the time to search through multiple sources and articles to get the most accurate pieces of data. The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals, 2nd edition brings a one-stop database reference for engineers to quickly gain access on over 12,000 compounds, simple and complex fluids, and an extensive list of properties - all to validate and improve on their thermodynamic modeling. Enhanced with eight new chapters covering

more equation of state parameters, Yaws' product continues to remain a go-to source to crosscheck critical properties available on process simulators or PVT software and estimate these properties based on the group contribution methods described in the different chapters. The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals, 2nd edition stands as the trusted database to optimize petrochemical processes, equipment, and operations. Provides a reliable database reference for thermodynamic properties, even varied by temperature, as well as simple and complex fluids, mixtures, and property calculations Updated with eight additional new chapters covering a modern platform of practical applications in modelling both pure fluids and mixtures with cubic equations of state Delivers accurate and quick options and solutions to size or simulate petrochemical processes and develop better predictive models

Separation Process Principles - J. D. Seader

2016-01-20

Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.

Handbook of Industrial Drying - Arun S. Mujumdar 2006-11-08

Still the Most Complete, Up-To-Date, and Reliable Reference in the Field Drying is a highly energy-intensive operation and is encountered in nearly all industrial sectors. With rising energy costs and consumer demands for higher quality dried products, it is increasingly important to be aware of the latest developments in industrial drying technology

Bioseparations Science and Engineering - Roger G. Harrison 2015-01-27

Designed for undergraduates, graduate students, and industry practitioners, Bioseparations Science and Engineering fills a critical need in the field of bioseparations. Current, comprehensive, and concise, it covers bioseparations unit operations in unprecedented depth. In each of the chapters, the authors use a consistent method of explaining unit operations, starting with a qualitative description noting the significance and general application of the unit operation. They then illustrate the scientific application of the operation, develop the

required mathematical theory, and finally, describe the applications of the theory in engineering practice, with an emphasis on design and scaleup. Unique to this text is a chapter dedicated to bioseparations process design and economics, in which a process similar, SuperPro Designer® is used to analyze and evaluate the production of three important biological products. New to this second edition are updated discussions of moment analysis, computer simulation, membrane chromatography, and evaporation, among others, as well as revised problem sets. Unique features include basic information about bioproducts and engineering analysis and a chapter with bioseparations laboratory exercises. Bioseparations Science and Engineering is ideal for students and professionals working in or studying bioseparations, and is the premier text in the field.

2009 ASHRAE Handbook - Mark S. Owen

2009

The 2009 ASHRAE Handbook-Fundamentals covers basic principles and data used in the HVAC&R industry. The ASHRAE Technical Committees that prepare these chapters strive not only to provide new information, but also to clarify existing information, delete obsolete materials, and reorganize chapters to make the Handbook more understandable and easier to use. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units.

Glider Flying Handbook - Federal Aviation Administration 2004-04

The first official book released by the Federal Aviation Administration (FAA) for the sole purpose of glider and sailplane instruction and knowledge, this book answers all the questions related to glider flying and soaring found in the FAA's required knowledge exams for pilots.

Included is detailed coverage on decision making, aerodynamics, aircraft performance, soaring weather, flight instruments, medical

factors, communications, and regulations, all in relation to the world of glider flying. Through full-colour graphics and detailed descriptions, pilots are better able to comprehend and visualise the manoeuvres within the book.

The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals - Carl L.

Yaws 2015-01-06

Refineries and petrochemical engineers today are accepting more unconventional feedstocks such as heavy oil and shale, causing unique challenges on the processing side of the business. To create more reliable engineering design of process equipment for the petrochemical industry, petroleum engineers and process managers are forced to study the physical properties and compounds of these particular hydrocarbons. Instead of looking up each compound's information, The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals, Second Edition presents an easy-to-use format with rapid access

to search for the particular compound and understand all the complex calculations in one tabular format. Understanding the composition of hydrocarbons is not easy to calculate quickly or accurately, but this must-have reference leads the engineer to better estimated properties and fractions from easily measured components. Expanded to cover more total compounds and relevant functions, The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals, Second Edition remains a necessary reference tool for every petrochemical and petroleum engineers' library. Coverage added on elements for hydrocarbons and chemicals with more than 200 real-world cases included for practicality Increased compound coverage from 41,000 to 54,000 total compounds to quickly access for everyday use New functions added such as testing boiling point temperature and new data on density and refractory index
Matheson Gas Data Book - Matheson Company, inc 1961

The Yaws Handbook of Vapor Pressure: Antoine Coefficients - Carl L. Yaws 2007-12

Covering the properties of over 8,200 compounds, this volume, written by the world's foremost authority on the subject, is more comprehensive and thorough than any other book of its kind. Used by scientists, chemists, and engineers every single day, these properties are important in the design, operations, and research for processes used in industrial plants. Whether working in environmental, chemical, or safety engineering, or chemistry, this book is invaluable, a handy reference for the practicing engineer or textbook for the engineering or chemistry student. The properties of Antoine coefficients contained in this volume are useful when calculating: Bubble point temperatures or pressures, Dew point temperatures or pressures, Vapour-liquid equilibrium, And many other processes, for distillation columns, phase separators, and other mass transfer process equipment. Not available anywhere else, the

information in this handbook is sure to be a valuable addition to the engineer, chemist, or scientist's library.

The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals - Carl L. Yaws 2005

"Written by the most lauded and respected author on chemical compounds in the field of chemical engineering, this volume is simply the most comprehensive collection of data on chemical compounds ever compiled. A compendium of over 41,000 organic and inorganic chemicals, this broad, ambitious and invaluable work covers c1 to c100 organics and Ac to Zr inorganics, with useful applications for the following audiences: Chemists Chemical engineers Chemistry students Chemical engineering students Process engineers For use in the field, in the lab or in the classroom there is no other work that comes close to the research compiled in this handy reference. Collected in one volume, the data on these

41,000 compounds is the most useful in the industry for the engineer and the chemist alike."--Publisher's website.

Ludwig's Applied Process Design for Chemical and Petrochemical Plants - A.

Kayode Coker, PhD 2010-07-19

The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E. Ludwig's classic chemical engineering process design manual. Volume Two focuses on distillation and packed towers, and presents the methods and fundamentals of plant design along with supplemental mechanical and related data, nomographs, data charts and heuristics. The Fourth Edition is significantly expanded and updated, with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives. A true application-driven book, providing clarity and easy access to essential process plant data and design

information Covers a complete range of basic day-to-day petrochemical operation topics Extensively revised with new material on distillation process performance; complex-mixture fractionating, gas processing, dehydration, hydrocarbon absorption and stripping; enhanced distillation types [Chemical Properties Handbook](#) - Carl L. Yaws 2001

Introduction to Industrial Polypropylene -
Dennis B. Malpass 2012-07-02

This introductory text is an important resource for new engineers, chemists, students, and chemical industry personnel to understand the technical aspects of polypropylene which is the 2nd largest synthetic polymer in manufactured output. The book considers the following topics: What are the principal types of polypropylene and how do they differ? What catalysts are used to produce polypropylene and how do they function? What is the role of cocatalysts and how

have they evolved over the years? How are industrial polypropylene catalysts tested and the resultant polymer evaluated? What processes are used in the manufacture of polypropylene? What are the biopolymer alternatives to polypropylene? What companies are the major industrial manufacturers of polypropylene? What is the environmental fate of polypropylene?

International Critical Tables of Numerical Data, Physics, Chemistry and Technology - 1926

Handbook of Vapor Pressure: Volume 4 -

Carl L. Yaws 1995-08-08

This series provides engineers with vapor pressure data for process design, production, and environmental applications.

The Properties of Gases and Liquids - Bruce Poling 2000-11-27

Must-have reference for processes involving liquids, gases, and mixtures Reap the time-saving, mistake-avoiding benefits enjoyed by

thousands of chemical and process design engineers, research scientists, and educators. *Properties of Gases and Liquids, Fifth Edition*, is an all-inclusive, critical survey of the most reliable estimating methods in use today --now completely rewritten and reorganized by Bruce Poling, John Prausnitz, and John O'Connell to reflect every late-breaking development. You get on-the-spot information for estimating both physical and thermodynamic properties in the absence of experimental data with this property data bank of 600+ compound constants. Bridge the gap between theory and practice with this trusted, irreplaceable, and expert-authored expert guide -- the only book that includes a critical analysis of existing methods as well as hands-on practical recommendations. Areas covered include pure component constants; thermodynamic properties of ideal gases, pure components and mixtures; pressure-volume-temperature relationships; vapor pressures and enthalpies of vaporization of pure fluids; fluid

phase equilibria in multicomponent systems;

viscosity; thermal conductivity; diffusion coefficients; and surface tension.