

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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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.

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

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.

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.

Chemical Properties Handbook - Carl L. Yaws 2001

Chemical Property Estimation - Edward Baum 1997-12-29

Our world is widely contaminated with damaging chemicals, and companies create thousands of new,

potentially dangerous chemicals each year. Due to the difficulty and expense of obtaining accurate measurements and the unreliability of reported values, we know surprisingly little about the properties of these contaminants. Determining the properties of chemicals is critical to judging their impact on environmental quality and in making decisions about emission rates, clean-up, and other important public health issues. Chemical Property Estimation describes modern methods of estimating chemical properties, methods which cost much less than traditional laboratory techniques and are sufficiently accurate for most environmental applications. Estimation methods are used to screen chemicals for testing, design monitoring and analysis methods, design clean-up procedures, and verify experimental measurements. The book discusses key methods for estimating chemical properties and considers their relative strengths and weaknesses. Several chapters are devoted to the partitioning of chemicals between air, water, soil, and biota; and properties such as solubility, vapor pressure, and chemical transport. Each chapter begins with a review of relevant theory and background information explaining the applications and limitations of each method. Sample calculations and practical advice on how and when to use each method are included as well. Each method is evaluated for accuracy and reliability. Computer software, databases, and internet resources are evaluated, as well as other supplementary material, such as fundamental constants, units of measure, and more.

Matheson Gas Data Book - Matheson Company, inc 1961

Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals - Donald Mackay
2006-03-14

CHOICE Award Winner 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 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.

Handbook of Industrial Hydrocarbon Processes - James G. Speight 2010-12-24

Written by an author with over 38 years of experience in the chemical and petrochemical process industry, this handbook will present an analysis of the process steps used to produce industrial hydrocarbons from various raw materials. It is the first book to offer a thorough analysis of external factors effecting production such as: cost, availability and environmental legislation. An A-Z list of raw materials and their properties are presented along with a commentary regarding their cost and availability. Specific processing operations described in the book include: distillation, thermal cracking and coking, catalytic methods, hydroprocesses, thermal and catalytic reforming, isomerization, alkylation processes, polymerization processes, solvent processes, water removal, fractionation and acid gas removal. Flow diagrams and descriptions of more than 250 leading-edge process technologies An analysis of chemical reactions and process steps that are required to produce chemicals from various raw materials Properties, availability and environmental impact of various raw materials used in hydrocarbon processing

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

Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds - Carl L. Yaws 2003

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 C100 organics and Ac to Zr inorganics

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 simulator, 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.

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.

Airframe and Powerplant Mechanics Powerplant Handbook - United States. Flight Standards Service 1971

Handbook of Heat Transfer - Warren M. Rohsenow 1973

Perry's Chemical Engineers' Platinum Edition - Robert H. Perry 1999

Reference work for chemical and process engineers. Newest developments, advances, achievements and methods in various fields.

International Critical Tables of Numerical Data, Physics, Chemistry and Technology - Edward Wight Washburn 1927

Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds - Carl L. Yaws 2003

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

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.

Physical Properties of Hydrocarbons - Robert W. Gallant 1995

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

Matheson Gas Data Book - William Braker 1971

Yaws Handbook of Physical Properties - Carl L. Yaws 2005-11-01

Written by the most acclaimed 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 chemical engineers and students. For use in the field, in the lab, or in the classroom, there is no other work that comes close to the research gathered in this handy reference.

Purification of Laboratory Chemicals - W.L.F. Armarego 2003-03-07

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

Airplane Flying Handbook (FAA-H-8083-3A) - Federal Aviation Administration 2011-09

A vital resource for pilots, instructors, and students, from the most trusted source of aeronautic

information.

Yaws Handbook of Thermodynamic Properties - Carl L. Yaws 2006

"Written by one of the most prolific and well-respected chemical engineers that the industry has ever produced. The Yaws Handbook of Thermodynamic Properties of Hydrocarbons and Chemicals is the most comprehensive and thorough volume ever written on the thermodynamic properties of hydrocarbons and chemicals. Carl Yaws is the world's foremost authority on vapor pressure and the properties of chemicals and he again proves it in this follow up to his important work published in 2005 by GPC Books, The Yaws' Handbook of Physical Properties of Hydrocarbons and Chemicals. Covering the thermodynamic properties of hydrocarbons and chemicals, this volume covers the spectrum, including chapters on the heat capacity and entropy of gas, the heat capacity and entropy of solids, the heat capacity of liquids, the entropy of formation and many other topics. Including more than 12,800 organic and inorganic chemicals, this resourceful work covers C1 to C100 organics and Ac to Zr inorganics collected together in one volume, making it most useful for any chemical engineer's library. Not just useful for the scientist in the lab or the student, this volume provides valuable information for the engineer working in the field. 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, covered in chapter four. Other chapters cover the Helmholtz energy of formation, the Gibbs energy of formation, internal energy of formation and entropy of formation, useful in modeling and ascertaining the energy of explosions. The thermodynamic properties provided in the book are important in design, operations, research, development, environmental and safety, covering literally thousands of compounds. 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."--Publisher's website.

The Yaws' Handbook of Physical Properties for Hydrocarbons and Chemicals - Carl L Yaws 2008

The Yaws Handbook of Properties for Environmental and Green Engineering - Carl L. Yaws 2008-10-01

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.

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.

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?

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

Knovel Critical Tables - Knovel Corporation 2003

[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

[Encyclopedia of Chemical Processing](#) - Sunggyu Lee 2006

Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-up criteria.

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.

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.

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