

## 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

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

*"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 c1to 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.**

**The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals****Physical Properties for More Than 54,000 Organic and Inorganic Chemical Compounds, Coverage for C1 to C100 Organics and Ac to Zr Inorganics****Gulf Professional Publishing**

**Thermophysical Properties of Chemicals and Hydrocarbons**

**Physical, Thermodynamic and Transport Properties for 5000 Organic Chemical Compounds**

**Standard Handbook of Petroleum and Natural Gas Engineering:**

**Handbook of Industrial Refractories Technology**

**Bioremediation Principles**

The ultimate book for learning stick and rudder flying skills for beginners and experienced pilots.

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 ð but relevant ð 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

Enhanced Oil Recovery Field Case Studies bridges the gap between theory and practice in a range of real-world EOR settings. Areas covered include steam and polymer flooding, use of foam, in situ combustion, microorganisms, "smart water"-based EOR in carbonates and sandstones, and many more. Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field. This book aids that effort, providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields. The case studies cover practical problems, underlying theoretical and modeling methods, operational parameters, solutions and sensitivity studies, and performance optimization strategies, benefitting academicians and oil company practitioners alike. Strikes an ideal balance between theory and practice Focuses on practical problems, underlying theoretical and modeling methods, and operational parameters Designed for technical professionals, covering the fundamental as well as the advanced aspects of EOR

The Yaws Handbook of Vapor Pressure: Antoine Coefficients

The Yaws Handbook of Vapor Pressure

Enhanced Oil Recovery Field Case Studies

Corrosion Tests and Standards

Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals, Second Edition

For more than a quarter century, Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens has proven to be among the most reliable, easy-to-use and essential reference works on hazardous materials. Sittig's 5th Edition remains the lone comprehensive work providing the 2,100 most heavily used, transported, and regulated chemical substances of both occupational and environmental concern. Information is the most vital resource anyone can have when dealing with potential hazardous substance accidents or acts of terror. Sittig's provides in a uniform format, enabling fast and accurate decisions in any situation. The chemicals are presented alphabetically and classified as a carcinogen, hazardous substance, hazardous waste, or toxic pollutant. This new edition contains extensively expanded information in all 28 fields (contents) and has been updated to keep pace with world events. Chemicals classified as WMD have been included in the new edition as has more information frequently queried by first responders and frontline industrial safety personnel. \*Includes and references European chemical single source reference that provides such in-depth information for each chemical. \*The two volume set is designed for fast and accurate decision making in any situation.

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 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' provides 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 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 on 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

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

Purification of Laboratory Chemicals

The Yaws' Handbook of Physical Properties for Hydrocarbons and Chemicals

Handbook of Fillers

Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties for Organic and Inorganic Chemicals

Handbook of Viscosity: Volume 1

**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.**

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.

**This series provides engineers with liquid and gas viscosities for the major organic compounds as a function of temperature. The graphs are arranged by chemical formula to provide ease of use; many of them cover the full range from melting point to boiling point to critical point. Common units are used, but each graph displays a conversion factor to provide English units.**

**Handbook of Chemical Compound Data for Process Safety**

**Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens**

**The Properties of Gases and Liquids**

**Rod Machado's How to Fly an Airplane Handbook**

**The Yaws Handbook of Thermodynamic Properties for Hydrocarbons and Chemicals**

*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*

*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.*

*The definitive reference for travel medicine, updated for 2020! "A beloved travel must-have for the intrepid wanderer." --Publishers Weekly "A truly excellent and comprehensive resource."*

*--Journal of Hospital Infection The CDC Yellow Book offers everything travelers and healthcare providers need to know for safe and healthy travel abroad. This 2020 edition includes:*

*Country-specific risk guidelines for yellow fever and malaria, including expert recommendations and 26 detailed, country-level maps*

*Detailed maps showing distribution of travel-related illnesses, including dengue, Japanese encephalitis, meningococcal meningitis, and schistosomiasis*

*Guidelines for self-treating common travel conditions, including altitude illness, jet lag, motion sickness, and travelers' diarrhea*

*Expert guidance on food and drink precautions to avoid illness, plus water-disinfection techniques for travel to remote destinations*

*Specialized guidelines for non-leisure travelers, study abroad, work-related travel, and travel to mass gatherings*

*Advice on medical tourism, complementary and integrative health approaches, and counterfeit drugs*

*Updated guidance for pre-travel consultations*

*Advice for obtaining healthcare abroad, including guidance on different types of travel insurance*

*Health insights around 15 popular tourist destinations and itineraries*

*Recommendations for traveling with infants and children*

*Advising travelers with specific needs, including those with chronic medical conditions or weakened immune systems, health care workers, humanitarian aid workers, long-term travelers and expatriates, and last-minute travelers*

*Considerations for newly arrived adoptees, immigrants, and refugees Long the most trusted book of its kind, the CDC Yellow Book is an essential resource in an ever-changing field -- and an ever-changing world.*

*Glider Flying Handbook*

*Handbook of Industrial Chemical Additives*

*Matheson Gas Data Book*

*Physical Properties for More Than 41,000 Organic and Inorganic Chemical Compounds : Coverage for C1 to C100 Organics and Ac to Zr Inorganics*

*Physical Properties for More Than 54,000 Organic and Inorganic Chemical Compounds, Coverage for C1 to C100 Organics and Ac to Zr Inorganics*

This book reviews the recent advances and current technologies used to produce microelectronic and optoelectronic devices from compound semiconductors. It provides a complete overview of the technologies necessary to grow bulk single crystal and homoepitaxial films, and process advanced devices such as HBT's, QW diode lasers, etc.

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 everywhere, 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 author.

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 and 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 use of biological methods and processes for the remediation of contaminated soils and aquifers is the focus of this text, which emphasizes the characteristics of organic compounds and factors which make organics amenable to biological treatment.

Handbook of Thermal Conductivity, Volume 2

Principles, Types, Properties and Applications

Skin-Related Neglected Tropical Diseases (Skin-NTDs): A New Challenge

Yaws Handbook of Thermodynamic Properties

Knovel Critical Tables

***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***

***This reference provides engineers with values for thermal conductivity as a function of temperature for the major organic compounds.***

***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***

**Handbook of Compound Semiconductors**

**Sittig's Handbook of Pesticides and Agricultural Chemicals**

**Antoine Coefficients**

**Physical, Thermodynamic and Transport Properties for 5,000 Organic Chemical Compounds**

**CDC Yellow Book 2020**

Encompasses the entire range of industrial refractory materials and forms: properties and their measurement, applications, manufacturing, installation and maintenance techniques, quality assurance, and statistical process control.

This book is a printed edition of the Special Issue Skin-Related Neglected Tropical Diseases (Skin-NTDs)—A New Challenge that was published in TropicalMed

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best , most comprehensive source of petroleum engineering information available.

Organic Compounds C5 to C7

Bioseparations Science and Engineering

Physical Properties of Hydrocarbons

Handbook of Thermodynamic Diagrams: Organic compounds C1 to C4

An up-to-date, exhaustive reference of all solids capable of changing the physical and chemical properties of materials. This one volume presents the information needed to market, develop, select, manufacture and apply these versatile new grades of fillers. Contains all the fundamentals and latest advances in fillers technology and the products in which they are used.

A comprehensive and accessible book covering all key marketing matters, with an emphasis on practicality and why marketing is important in engineering. Aimed primarily at non-marketing people wanting clarification of marketing's purpose, role and methods.

This reference handbook provides fully updated chemical, regulatory, health, and safety information on nearly 800 pesticides and other agricultural chemicals. The clear, consistent and comprehensive presentation of information makes Sittig's an essential reference for a wide audience including first responders, environmental and industrial health/safety professionals, the food industry, the agricultural sector and toxicologists. Detailed profiles are provided for each substance listed, including: usage; crop-specific residue limits; hazard ratings for long-term human toxicity; and endocrine disruptor and reproductive toxicity information. Every chemical profile contains references and web links to source information from the EPA, OSHA, the World Health Organization (WHO), and other important advisory and lawmaking bodies.

This work is focused on regulated chemicals. The substances covered include pesticides, insecticides, herbicides, fungicides, rodenticides and related agricultural chemicals used on foods grown and produced for both human and animal consumption. These products are organized with common names, chemical synonyms, trade names, chemical formulae, US EPA pesticide codes, EU regulations including Hazard Symbol and Risk Phrases, EINECS, RTECS, CAS, and other unique identifiers so that all who may have contact with, or interest in them can find needed information quickly. A comprehensive reference for the agricultural sector, food industry, agrochemical manufacturing and distribution sector, and first responders Brings together a wealth of hazard and response, regulatory and toxicological information in

one convenient go-to handbook Covers US, EU and worldwide regulatory requirements

A Guide to the Fundamentals for Engineers

Growth, Processing, Characterization, and Devices

Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds

Organic Compounds C1 to C4

Health Information for International Travel

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.

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

*The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals*

*Polymer Handbook*

*AASHTO Guide for Design of Pavement Structures, 1993*

*Demystifying Marketing*

*Chemical Properties Handbook*