

# Thermodynamic and Physical Property Data

Comprehensive thermodynamic  
and physical property data  
for hydrocarbons and  
organic chemicals

Carl L. Yaws

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# Thermodynamic And Physical Property Data

**Carl L. Yaws**



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Physical Properties Carl L. Yaws, 1977      **Thermodynamic and Physical Property Data** Carl L. Yaws, 1992 Physical and thermodynamic property data for hydrocarbon and organic compounds are of special value to engineers in the chemical processing and petroleum refining industries This book offers engineers and scientists quick access to this data by the use of tabular information      *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      **Chemical Process Design and Simulation:**

**Aspen Plus and Aspen Hysys Applications** Juma Haydary, 2019-01-23 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of

chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design

Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software

**Physical Properties** Carl L. Yaws,1977

**Ludwig's Applied Process Design for Chemical and Petrochemical Plants** A. Kayode Coker,2011-08-30 This complete revision of Applied Process Design for Chemical and Petrochemical Plants Volume 1 builds upon Ernest E Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes important supplemental mechanical and related data nomographs and charts Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures details on the equipment suitable for application selection and charts in readily usable form Process engineers designers and operators will find more chemical petrochemical plant design data in Volume 2 Third Edition which covers distillation and packed towers as well as material on azeotropes and ideal non ideal systems Volume 3 Third Edition which covers heat transfer refrigeration systems compression surge drums and mechanical drivers A Kayode Coker is Chairman of Chemical Process Engineering Technology department at Jubail Industrial College in Saudi Arabia He s both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of Fortran Programs for Chemical Process Design Analysis and Simulation Gulf Publishing Co and Modeling of Chemical Kinetics and Reactor Design Butterworth Heinemann Provides improved design manuals for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics with new material on significant industry changes since 1995

**Chemical Engineering Computation with MATLAB®** Yeong Koo Yeo,2017-08-01 Most problems encountered in chemical engineering are sophisticated and interdisciplinary Thus it is important for today s engineering students researchers and professionals to be proficient in the use of software tools for problem solving MATLAB is one such tool that is distinguished by the ability to perform calculations in vector matrix form a large library of built in functions strong structural language and a rich set of graphical visualization tools Furthermore MATLAB integrates computations visualization and programming in an intuitive user friendly environment Chemical Engineering Computation with MATLAB presents basic to advanced levels of problem solving techniques using MATLAB as the computation environment The book provides examples and problems extracted from core chemical engineering subject areas and presents a basic instruction in the use of MATLAB for problem solving It provides many examples and exercises and extensive problem solving instruction and solutions for various problems Solutions are developed using fundamental

principles to construct mathematical models and an equation oriented approach is used to generate numerical results A wealth of examples demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results This book also provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization

*Fortran Programs for Chemical Process Design, Analysis, and Simulation* A. Kayode Coker,1995-01-25 This book gives engineers the fundamental theories equations and computer programs including source codes that provide a ready way to analyze and solve a wide range of process engineering problems

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents A. Kayode Coker,2024-06-08 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format

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