

FLUENT ENGINEERING SOFTWARE

Calculation of Gas Properties - IAPWS Engineering Data Book - 1983 Edition - First Edition 1988

Version 1.0.0.0

CALCULATION TITLE

Enter details and data into the cells with a yellow background only.
 Calculations are performed in the right side and presented for each unit.
 Most Co., Co. & unit 1000 are calculated using the National Bureau NBS.
 Data can be entered and recommended from the Library at the right by highlighting
 and copying the data within the green border and "pasting values" into the Library.

Formula	Units	Units	Units
Methane	CH ₄	16.043	g/mol
Ethane	C ₂ H ₆	30.070	g/mol
Propane	C ₃ H ₈	44.097	g/mol
i-Butane	C ₄ H ₁₀	58.122	g/mol
n-Butane	C ₄ H ₁₀	58.122	g/mol
i-Pentane	C ₅ H ₁₂	72.151	g/mol
n-Pentane	C ₅ H ₁₂	72.151	g/mol
n-Hexane	C ₆ H ₁₄	86.171	g/mol
n-Heptane	C ₇ H ₁₆	100.206	g/mol
n-Octane	C ₈ H ₁₈	114.232	g/mol
n-Nonane	C ₉ H ₂₀	128.262	g/mol
n-Decane	C ₁₀ H ₂₂	142.297	g/mol
Carbon Dioxide	CO ₂	44.01	g/mol
Carbon Monoxide	CO	28.01	g/mol
Hydrogen Sulfide	H ₂ S	34.082	g/mol
Air		28.97	g/mol
Hydrogen	H ₂	2.016	g/mol
Oxygen	O ₂	31.999	g/mol
Nitrogen	N ₂	28.014	g/mol
Water	H ₂ O	18.015	g/mol

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Library
 This application is written around the calculations in the 50 units version of the Data
 Book and all calculations are carried out in 50 units.
 The application, however, continuously provides the outcome in both SI and 100 units
 for the user's convenience.
 The controls on the left side of the window allow the operator to select which units they
 want to use to enter the data for the calculations.
 This also reads the base pressure and temperature for the calculations to either
 MPa or kPa and 15 °C or 50 °F or 100 °F or 200 °F or 300 °F or 400 °F or 500 °F or 600 °F or 700 °F or 800 °F or 900 °F or 1000 °F or 1100 °F or 1200 °F or 1300 °F or 1400 °F or 1500 °F or 1600 °F or 1700 °F or 1800 °F or 1900 °F or 2000 °F or 2100 °F or 2200 °F or 2300 °F or 2400 °F or 2500 °F or 2600 °F or 2700 °F or 2800 °F or 2900 °F or 3000 °F or 3100 °F or 3200 °F or 3300 °F or 3400 °F or 3500 °F or 3600 °F or 3700 °F or 3800 °F or 3900 °F or 4000 °F or 4100 °F or 4200 °F or 4300 °F or 4400 °F or 4500 °F or 4600 °F or 4700 °F or 4800 °F or 4900 °F or 5000 °F or 5100 °F or 5200 °F or 5300 °F or 5400 °F or 5500 °F or 5600 °F or 5700 °F or 5800 °F or 5900 °F or 6000 °F or 6100 °F or 6200 °F or 6300 °F or 6400 °F or 6500 °F or 6600 °F or 6700 °F or 6800 °F or 6900 °F or 7000 °F or 7100 °F or 7200 °F or 7300 °F or 7400 °F or 7500 °F or 7600 °F or 7700 °F or 7800 °F or 7900 °F or 8000 °F or 8100 °F or 8200 °F or 8300 °F or 8400 °F or 8500 °F or 8600 °F or 8700 °F or 8800 °F or 8900 °F 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Working Guide to Petroleum and Natural Gas Production Engineering William Lyons, 2009-09-16 Working Guide to Petroleum and Natural Gas Production Engineering provides an introduction to key concepts and processes in oil and gas production engineering. It begins by describing correlation and procedures for predicting the physical properties of natural gas and oil. These include compressibility factor and phase behavior, field sampling process and laboratory measurements and prediction of a vapor liquid mixture. The book discusses the basic parameters of multiphase fluid flow, various flow regimes and multiphase flow models. It explains the natural flow performance of oil gas and the mixture. The final chapter covers the design, use, function, operation and maintenance of oil and gas production facilities, the design and construction of separators and oil and gas separation and treatment systems. Evaluate well inflow performance. Guide to properties of hydrocarbon mixtures. Evaluate Gas production and processing facilities.

Natural Gas Hydrates John Carroll, 2020-05-12 Natural Gas Hydrates Fourth Edition provides a critical reference for engineers who are new to the field. Covering the fundamental properties, thermodynamics and behavior of hydrates in multiphase systems, this reference explains the basics before advancing to more practical applications, the latest developments and models. Updated sections include a new hydrate toolbox, updated correlations and computer methods. Rounding out with new case study examples, this new edition gives engineers an important tool to continue to control and mitigate hydrates in a safe and effective manner. Presents an updated reference with structured comparisons on hydrate calculation methods that are supported by practical case studies and a current list of inhibitor patents. Provides a comprehensive understanding of new hydrate management strategies, particularly for multiphase pipeline operations. Covers future challenges such as carbon sequestration with simultaneous production of methane from hydrates.

Process Engineering and Design Using Visual Basic Arun Datta, 2007-10-08 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs. Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design. In Process Engineering.

Process Engineering and Design Using Visual Basic®, Second Edition Arun Datta, 2013-09-20 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs. Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design. In Process Engineering and Design Using Visual Basic Arun K Datta provides a unique and versatile suite of programs along with simultaneous development of the underlying concepts, principles and mathematics. Each chapter details the theory and techniques that provide the basis for design and engineering software and then showcases the development and utility of programs developed using the material outlined in the chapter. This all inclusive guide works systematically from basic mathematics to fluid mechanics, separators, overpressure protection and glycol dehydration, providing basic design guidelines.

based on international codes Worked examples demonstrate the utility of each program while the author also explains problems and limitations associated with the simulations After reading this book you will be able to immediately put these programs into action and have total confidence in the result regardless of your level of experience Companion Visual Basic and Excel files are available for download on under the Downloads Updates tab on this web page

Process Plant Equipment Michael D. Holloway,Chikezie Nwaoha,Oliver A. Onyewuenyi,2012-08-20 Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery Associate Prof Dr Ramli Mat Deputy Dean Academic Faculty of Chemical Engineering Universiti Teknologi Malaysia give s readers access to both fundamental information on process plant equipment and to practical ideas best practices and experiences of highly successful engineers from around the world The book is illustrated throughout with numerous black white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book An extensive list of references enables readers to explore each individual topic in greater depth Stainless Steel World and Valve World November 2012 Discover how to optimize process plant equipment from selection to operation to troubleshooting From energy to pharmaceuticals to food the world depends on processing plants to manufacture the products that enable people to survive and flourish With this book as their guide readers have the information and practical guidelines needed to select operate maintain control and troubleshoot process plant equipment so that it is efficient cost effective and reliable throughout its lifetime Following the authors careful explanations and instructions readers will find that they are better able to reduce downtime and unscheduled shutdowns streamline operations and maximize the service life of processing equipment Process Plant Equipment Operation Control and Reliability is divided into three sections Section One Process Equipment Operations covers such key equipment as valves pumps cooling towers conveyors and storage tanks Section Two Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment including failure analysis Fitness for Service assessment engineering economics for chemical processes and process component function and performance criteria Section Three Process Measurement Control and Modeling examines flow meters process control and process modeling and simulation Throughout the book numerous photos and diagrams illustrate the operation and control of key process equipment There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book At the end of each chapter an extensive list of references enables readers to explore each individual topic in greater depth In summary this text offers students process engineers and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment from its initial selection to operations to troubleshooting

Advanced Process Control and Simulation for Chemical Engineers Hossein Ghanadzadeh Gilani,Katia Ghanadzadeh Samper,Reza

Khodaparast Haghi,2016-04-19 This book offers a modern view of process control in the context of today s technology It provides innovative chapters on the growth of educational scientific and industrial research among chemical engineers It presents experimental data on thermodynamics and provides a broad understanding of the main computational techniques used for chemical *Chemoinformatics* Hossein G. Gilani,Katia G. Samper,Reza Khodaparast Haghi,2012-07-27

Chemoinformatics Advanced Control and Computational Techniques provides an important understanding of the main computational techniques used for processing chemical and biological structural data The theoretical background to a number of techniques is introduced General data analysis techniques and examination of the application techniques in the industry are presented along with current practices and current research The book also provides practical experience of commercially available systems and includes small scale chemoinformatics related projects The book offers scope for academics researchers and engineering professionals Chapters range from new methods to novel applications of existing methods and help provide an understanding of the material and or structural behavior of new and advanced systems It includes innovative chapters on the growth of educational scientific and industrial research activities among chemical engineers It provides the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and chemical engineering *Handbook of Natural Gas Transmission and Processing* Saeid Mokhatab,William A. Poe,James G. Speight,2017-09-01 *Handbook of Natural Gas Transmission and Processing* gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry The authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects Provides practicing engineers critical information on all aspects of gas gathering processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency quality and profit *Efficiency of Biomass Energy* Krzysztof J. Ptasiński,2016-08-30 Details energy and exergy efficiencies of all major aspects of bioenergy systems Covers all major bioenergy processes starting from photosynthesis and cultivation of biomass feedstocks and ending with final bioenergy products like power biofuels and chemicals Each chapter includes historical developments chemistry major technologies applications as well as energy environmental and economic aspects in order to serve as an introduction to biomass and bioenergy A separate chapter introduces a beginner in easy accessible way to exergy analysis and the similarities and differences between energy and exergy efficiencies are underlined Includes case studies and illustrative examples of 1st 2nd and 3rd generation biofuels production power and heat generation thermal plants fuel cells boilers and biorefineries Traditional fossil fuels based technologies are also described in order to compare with the corresponding bioenergy systems

Petroleum Reservoir Rock and Fluid Properties Abhijit Y. Dandekar, 2006-02-23 A strong foundation in reservoir rock and fluid properties is the backbone of almost all the activities in the petroleum industry *Petroleum Reservoir Rock and Fluid Properties* offers a reliable representation of fundamental concepts and practical aspects that encompass this vast subject area The book provides up to date coverage of various rock and fluid properties using derivations mathematical expressions and various laboratory measurement techniques Focused on achieving accurate and reliable data it describes coring methods used for extracting samples from hydrocarbon formations and considerations for handling samples for conventional and special core analyses Detailing properties important to reservoir engineering and surface processing the author emphasizes basic chemical and physical aspects of petroleum reservoir fluids important phase behavior concepts fluid sampling compositional analysis and assessing the validity of collected fluid samples The book also presents PVT equipment phase behavior analysis using laboratory tests and calculations to elucidate a wide range of properties such as hydrocarbon vapor liquid equilibria using commonly employed equations of state EOS models Covering both theoretical and practical aspects that facilitate the solution of problems encountered in real life situations *Petroleum Reservoir Rock and Fluid Properties* is ideal for students in petroleum engineering including those coming from different backgrounds in engineering This book is also a valuable reference for chemical engineers diversifying into petroleum engineering and personnel engaged in core analysis and PVT and reservoir fluid studies

Nuclear Energy for Hydrogen Generation through Intermediate Heat Exchangers Bahman Zohuri, 2016-07-15 This book describes recent technological developments in next generation nuclear reactors that have created renewed interest in nuclear process heat for industrial applications The author's discussion mirrors the industry's emerging focus on combined cycle Next Generation Nuclear Plants NGNP seemingly natural fit in producing electricity and process heat for hydrogen production To utilize this process heat engineers must uncover a thermal device that can transfer the thermal energy from the NGNP to the hydrogen plant in the most performance efficient and cost effective way possible This book is written around that vital quest and the author describes the usefulness of the Intermediate Heat Exchanger IHX as a possible solution The option to transfer heat and thermal energy via a single phase forced convection loop where fluid is mechanically pumped between the heat exchangers at the nuclear and hydrogen plants is presented and challenges associated with this tactic are discussed As a second option heat pipes and thermosyphons with their ability to transport very large quantities of heat over relatively long distance with small temperature losses are also examined

Materials Physics and Chemistry Satya Bir Singh, Alexander V. Vakhrushev, A. K. Haghi, 2020-11-02 This volume focuses on the development and application of fundamental concepts in mechanics and physics of solids as they pertain to the solution of challenging new problems in diverse areas such as materials science and micro and nanotechnology In this volume emphasis is placed on the development of fundamental concepts of mechanics and novel applications of these concepts based on theoretical experimental or computational approaches drawing upon the various branches of engineering

science and the allied areas within applied mathematics materials science and applied physics Materials Physics and Chemistry Applied Mathematics and Chemo Mechanical Analysis emphasizes the basics such as design equilibrium material behavior and geometry of deformation in simple structures or machines Readers will find a thorough treatment of stress strain and the stress strain relationships Meanwhile it provides a solid foundation upon which readers can begin work in composite materials science and engineering Many chapters include theory components with the equations students need to calculate different properties

Standard Handbook of Petroleum and Natural Gas Engineering William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling integrated reservoir management and environmental health and safety The sections on natural gas have been updated with new sections on natural gas liquefaction processing natural gas distribution and transport Additionally there are updated and new sections on offshore equipment and operations subsea connection systems production control systems and subsea control systems Standard Handbook of Petroleum and Natural Gas Engineering Third Edition is a one stop training tool for any new petroleum engineer or veteran looking for a daily practical reference Presents new and updated sections in drilling and production Covers all calculations tables and equations for every day petroleum engineers Features new sections on today s unconventional resources and reservoirs

Standard Handbook of Petroleum and Natural Gas Engineering William C. Lyons, Gary J Plisga BS, 2011-03-15 This new edition of the Standard Handbook of Petroleum and Natural Gas Engineering provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this text is a handy and valuable reference Written by over a dozen leading industry experts and academics the Standard Handbook of Petroleum and Natural Gas Engineering provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for the oil and gas industry for over 65 years A comprehensive source for the newest developments advances and procedures in the petrochemical industry covering everything from drilling and production to the economics of the oil patch Everything you need all the facts data equipment performance and principles of petroleum engineering information not found anywhere else

A desktop reference for all kinds of calculations tables and equations that engineers need on the rig or in the office A time and money saver on procedural and equipment alternatives application techniques and new approaches to problems

Hybrid Energy Systems for Offshore Applications Ibrahim Dincer,Valerio Cozzani,Anna Crivellari,2021-05-15 There has been a strong need to enhance the utilization of renewable energy systems RESs from onshore to offshore applications where oil and gas companies are pivoting to integrate such renewable energy options into their offshore operations to lower their carbon footprint extend the lifetime of their assets and expand their market In this regard innovative hybrid energy systems such as Power to Gas P2G and Power to Liquid P2L options as well as novel integration strategies for Gas to Power G2P systems offer the opportunity to implement solutions energy transition paving the way to offshore RES deployment Hybrid Energy Systems for Offshore Applications delivers a comprehensive presentation of state of the art and perspective developments of offshore RES exploitation strategies and technologies and provides a unique portfolio of decision making methodologies supporting the selection of the most suitable options for offshore renewable energy production at a specific site System modeling and analysis along with the definitions of multicriteria methodologies and strategies based on sustainability environmental impact and safety performance indicators are addressed in an integrated fashion Rounding out with both research and practical applications explained this book gives academicians and industrial professionals fundamentals and methods for integrated performance analysis of innovative systems addressing offshore RES exploitation sustainable chemical and power production better efficiency lower costs lower environmental impact and higher inherent safety Harmonized presentation of RESs Unique coverage on hybrid energy systems and their offshore applications Comprehensive thermodynamic analysis and evaluation of the developed systems Process and system modeling analysis and decision making methodologies for offshore P2G P2L and G2P solutions Sustainability modeling and assessment studies for various offshore applications Distinct parametric studies illustrations and case studies Specific sustainability and safety performance indicators for comparative evaluations

Natural Gas James G. Speight,2007-10-01 Natural gas represents nearly one quarter of the world s energy resources More than half of American homes rely on it as their main heating fuel It serves as the raw material necessary in everyday paints plastics medicines and explosives It produces the cleanest of all fossil fuels It is natural gas and everybody should acquire a basic understanding of it This valuable easy to use reference supplies all the basics that every person should know about the natural gas industry Introductory engineers managers and analysts will benefit from this informative practical handbook Natural gas remains a vital component of all energy sources and with an increasing demand for information on this useful energy source Natural Gas A Basic Handbook is an essential tool for anyone involved in the energy industry

Gas Cleaning Processes in Refining Technology James G. Speight,2024-11-26 This book focuses on the various refinery processes that are used for gas cleaning operations By understanding the use of gas cleaning processes this book will satisfy the needs of engineers and scientists at all levels from

academia to the refinery and help them understand the initial various processes This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes gas streams produced in a crude oil refinery and from non refinery feedstocks Covers gas condensate gas from biomass waste and landfill waste and details categorization by types of contaminants and by removal method Provides an extensive glossary Discusses the future of gas cleaning operations and the evolution of the industry This series of eight books is designed to present descriptions of 1 the development of technologies for a variety of feedstocks including the viscous feedstocks which are often referred to as heavy feedstocks utilizing advanced pre treatment processing and hydrotreating 2 an analysis of the catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity 3 the development of advanced technologies applicable to the viscous feedstocks 4 the development of advanced hydrocracking processes for heavy feedstock upgrading 5 the development of innovative upgrading processes for the viscous feedstocks and 6 the role of biomass in the future refinery Furthermore each book is a stand alone volume that will bring the reader further up to date and adds more data as well as processing options that may be the processes of the evolving twenty first century As the eighth book in the series this book will focus on the various refinery processes that are used for gas cleaning operations The target audience includes engineers scientists and students who want an update on crude oil processing and the direction of the industry in the next 50 years Such personnel include 1 professionals in the refining industry 2 technicians in the refining industry 3 industry management personnel who need to understand the various processes and the role of these process in producing the desired feedstocks for further processing and the use of solvents to produce saleable products and 4 the academic staff and graduate students who are moving into the refining industry Any non technical readers with help from the extensive glossary will also benefit from the series

Fuels and Lubricants Handbook , Gas Engineering James G. Speight, 2022-11-07 Volume 2 covers the constituents of gas streams and their properties The author presents the chemistry and engineering aspects of the methods and principles by which the gas streams might be cleaned from their noxious constituents The concept of gas condensate is also discussed as well as the methods which can be applied to the analysis of streams and condensate Vol 1 Origin and Reservoir Engineering Vol 3 Uses of Gas and Effects

Flow Assurance Solids in Oil and Gas Production Jon Steinar Gudmundsson, 2017-09-13 The precipitation and deposition of solids are a major challenge in the production of oil and gas Flow assurance solids are formed because of unavoidable changes in temperature pressure and composition of the oil gas water flowstream from reservoir conditions to processing conditions The advent of subsea production and the increased exploitation of heavy crudes have made flow assurance issues dominant in ensuring efficient and safe exploitation of hydrocarbon assets Five troublesome flow assurance solids are described in the book asphaltene paraffin wax natural gas hydrate naphthenate and inorganic scale These big five solids are presented in stand alone chapters Each chapter is designed to be readable without clutter

Derivations of equations and descriptions of supporting details are given in several appendices The book is intended for professional engineers and natural scientist working in E P companies engineering companies service companies and specialized companies An understanding of the big five solids is required throughout the lifetime of oil and gas assets from early development to abandonment The technical safety and environmental risks associated with deposition problems in near wellbore formations production tubing wellhead equipment flowlines and processing facilities are relevant for decisions in the oil and gas industry and in outside regulatory and financial entities

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