

Saturation refers to any Gas - Vapor Combination. While -
• Humidity refers only Air - Water Vapor System.

Absolute Humidity It is defined as the weight of Water Vapour present in a unit weight of dry (Non - condensable) gas.

$$H = \frac{\text{kg of water Vapour}}{\text{kg of dry Air}}$$

$$\begin{array}{l} \text{Vapor} = \text{Condensed} \\ \text{gas} = \text{Liquified} \end{array}$$

⇒ Molal Humidity (Molal Saturation) It is defined as the ratio of Mole of Vapour [Condensable] to the Mole of dry (Non - condensable) gas.

$$H_m = \frac{\text{kmol of Vapor}}{\text{kmol of dry gas}}$$

for air - water vapor system

$$H = H_m \left(\frac{18}{29} \right) = 0.6207 H_m$$

In Vapor - gas Mixture

$$P = P_A + P_B$$

$$PV = nRT \Rightarrow \left. \begin{array}{l} P_A = \frac{n_A}{n_A + n_B} P \\ P_B = \frac{n_B}{n_A + n_B} P \end{array} \right\}$$

P = total / Barometric pr.

P_A = Partial pr. of Vapor

P_B = Partial pr. of ~~gas~~ gas

$$\Rightarrow \left[\frac{P_A}{P_B} = \frac{n_A}{n_B} \right]$$

then

$$H_m = \frac{P_B}{P_B} = \frac{P_A}{P - P_A} \Rightarrow$$

$$H = 0.6207 \frac{P_A}{P - P_A}$$

Process Calculation For Chemical Engineers

Stephen M Hall



Process Calculation For Chemical Engineers:

Process Calculations V. Venkataramani, N. Anantharaman, K. M. Meera Sheriffa Begum, 2011 This compact and highly readable text now in its second edition continues to provide a thorough introduction to the basic chemical engineering principles and calculations to enable the students to evaluate the material and energy balances in various units of a process plant Unless a chemical engineer is conversant with the energy conservation techniques at every stage of the process economy cannot be achieved in the design of process equipment The text lucidly explains the techniques involved in analyzing different chemical processes and the underlying theories by making a generous use of appropriate worked examples The examples are simple and concrete to make the book useful for self instruction In this new edition besides worked examples several exercises are included to aid students in testing their knowledge of the material contained in each chapter The book is primarily intended for undergraduate students of Chemical Engineering It would also be useful to undergraduate students of Petroleum Technology Pharmaceutical Technology and other allied branches of Chemical Engineering

KEY FEATURES Exposes the reader to background information on different systems of units dimensions and behaviour of gases liquids and solids Provides several examples with detailed solutions to explain the concepts discussed Includes chapter end exercises with answers to enhance learning

Process Calculations for Chemical Engineers Ch Durgaprasada Rao, D V S Murthy, 1980-02-01 This book presents an introduction to chemical engineering calculations along with the techniques of writing mass and energy balances for chemical nuclear biochemical electrochemical and other less conventional processes Both undergraduate students of

Introduction to Process Calculations Stoichiometry KA. Gavhane, 2012

Process Calculations for Chemical Engineers Indian Institute of Technology (Chennai, India). Chemical Engineering Education Development Centre, 1975

STOICHIOMETRY AND PROCESS CALCULATIONS K. V. NARAYANAN, B. LAKSHMIKUTTY, 2006-01-01 This textbook is designed for undergraduate courses in chemical engineering and related disciplines such as biotechnology polymer technology petrochemical engineering electrochemical engineering environmental engineering safety engineering and industrial chemistry The chief objective of this text is to prepare students to make analysis of chemical processes through calculations and also to develop in them systematic problem solving skills The students are introduced not only to the application of law of combining proportions to chemical reactions as the word stoichiometry implies but also to formulating and solving material and energy balances in processes with and without chemical reactions The book presents the fundamentals of chemical engineering operations and processes in an accessible style to help the students gain a thorough understanding of chemical process calculations It also covers in detail the background materials such as units and conversions dimensional analysis and dimensionless groups property estimation P V T behaviour of fluids vapour pressure and phase equilibrium relationships humidity and saturation With the help of examples the book explains the construction and use of reference substance plots equilibrium diagrams psychrometric charts steam

tables and enthalpy composition diagrams It also elaborates on thermophysics and thermochemistry to acquaint the students with the thermodynamic principles of energy balance calculations Key Features SI units are used throughout the book Presents a thorough introduction to basic chemical engineering principles Provides many worked out examples and exercise problems with answers Objective type questions included at the end of the book serve as useful review material and also assist the students in preparing for competitive examinations such as GATE

Material Balance and Process Calculations: A Book for Chemical Engineers and Chemists Kingsley Augustine, 2018-10-07 This textbook Material Balance and Process Calculations has been carefully written to teach you important topics in material balance and process calculations by explaining them with a mindset to fully equip you in the topics Whether you want this book for general studies of these topics or you want this book to study for an exam you will find it a very useful tool This textbook is a mass balance teacher which is suitable for students in universities and students in colleges It will also serve as a useful tool for direct entry students who are preparing for entrance examinations into colleges and universities This book is not only for engineering students but also for chemistry students or any student who is offering a course in chemistry The step by step explanations presented in the worked examples are easy to understand since care was taken to sufficiently explain salient points and process ideas Efforts have been made to achieve a complete and simplified explanation of every example given in this textbook Many worked examples have been included in each topic in order to fully cover every complexity the topic might contain This book will boost your level of understanding of material balance and process calculations Numerous exercises at the end of each chapter are intended to test students understanding of the topic Therefore students are thus presented with an effective means of self assessment whereby they can determine their individual strengths and revision needs The topics covered in this eBook include Handbook of Chemical Engineering Calculations Nicholas Chohey, 2004 Provides detailed procedures for performing hundreds of chemical engineering calculations along with fully worked out examples

Chemical Process Calculations K. Asokan, 2007

Rules of Thumb for Chemical Engineers Stephen Hall, Stephen M Hall, 2012-06-18 Annotation A handbook for chemical and process engineers who need a solution to their practical on the job problems It solves process design problems quickly accurately and safely with hundreds of techniques shortcuts and calculations

CHEMICAL PROCESS CALCULATIONS PRASAD, RAM, 2022-04-13 The present textbook is written for undergraduate students of chemical engineering as per the syllabus framed by AICTE curriculum It explains the basic chemical process principles in a lucid manner SI units chemical stoichiometry and measures of composition behaviour of gases vapour pressure of pure substances and humidity and saturation are covered in detail In addition mass and energy balances of chemical processes have also been described Chemical processes without chemical reactions include fluid flow mixing evaporation distillation absorption and stripping liquid liquid extraction leaching and washing adsorption drying crystallization and membrane separation process

SALIENT FEATURES Description of all concepts and principles with a rich

pedagogy for easy understanding Correct use of SI units Over 270 solved examples for understanding the basic concepts Answers to all chapter end numerical problems for checking the accuracy of calculations TARGET AUDIENCE BE B Tech Chemical Engineering *Basic Principles and Calculations in Chemical Engineering* David Mautner Himmelblau, James B. Riggs, 2012 Best selling introductory chemical engineering book now updated with far more coverage of biotech nanotech and green engineering Thoroughly covers material balances gases liquids and energy balances Contains new biotech and bioengineering problems throughout *Basic Principles and Calculations in Process Technology* T. David Griffith, 2015-09-02 A Practical Guide to Physical and Chemical Principles and Calculations for Today's Process Control Operators In *Basic Principles and Calculations in Process Technology* author T David Griffith walks process technologists through the basic principles that govern their operations helping them collaborate with chemical engineers to improve both safety and productivity He shows process operators how to go beyond memorizing rules and formulas to understand the underlying science and physical laws so they can accurately interpret anomalies and respond appropriately when exact rules or calculation methods don't exist Using simple algebra and non technical analogies Griffith explains each idea and technique without calculus He introduces each topic by explaining why it matters to process technologists and offers numerous examples that show how key principles are applied and calculations are performed For end of chapter problems he provides the solutions in plain English discussions of how and why they work Chapter appendixes provide more advanced information for further exploration *Basic Principles and Calculations in Process Technology* is an indispensable practical resource for every process technologist who wants to know what the numbers mean so they can control their systems and processes more efficiently safely and reliably T David Griffith received his B S in chemical engineering from The University of Texas at Austin and his Ph D from the University of Wisconsin Madison then top ranked in the discipline After working in research on enhanced oil recovery EOR he cofounded a small chemical company and later in his career he developed a record setting Electronic Data Interchange EDI software package He currently instructs in the hydrocarbon processing industry Coverage includes Preparing to solve problems by carefully organizing them and establishing consistent sets of measures Calculating areas and volumes including complex objects and interpolation Understanding Boyle's Law Charles's Law and the Ideal Gas Law Predicting the behavior of gases under extreme conditions Applying thermodynamic laws to calculate work and changes in gas enthalpy and to recognize operational problems Explaining phase equilibria for distillation and fractionalization Estimating chemical reaction speed to optimize control Balancing material or energy as they cross system boundaries Using material balance calculations to confirm quality control and prevent major problems Calculating energy balances and using them to troubleshoot poor throughput Understanding fluid flow including shear viscosity laminar and turbulent flows vectors and tensors Characterizing the operation of devices that transport heat energy for heating or cooling Analyzing mass transfer in separation processes for materials purification **Principles of Chemical Engineering Processes** Nayef

Ghasem, Redhouane Henda, 2014-11-10 Principles of Chemical Engineering Processes Material and Energy Balances introduces the basic principles and calculation techniques used in the field of chemical engineering providing a solid understanding of the fundamentals of the application of material and energy balances Packed with illustrative examples and case studies this book Discusses problems in material and energy balances related to chemical reactors Explains the concepts of dimensions units psychrometry steam properties and conservation of mass and energy Demonstrates how MATLAB and Simulink can be used to solve complicated problems of material and energy balances Shows how to solve steady state and transient mass and energy balance problems involving multiple unit processes and recycle bypass and purge streams Develops quantitative problem solving skills specifically the ability to think quantitatively including numbers and units the ability to translate words into diagrams and mathematical expressions the ability to use common sense to interpret vague and ambiguous language in problem statements and the ability to make judicious use of approximations and reasonable assumptions to simplify problems This Second Edition has been updated based upon feedback from professors and students It features a new chapter related to single and multiphase systems and contains additional solved examples and homework problems Educational software downloadable exercises and a solutions manual are available with qualifying course adoption

Basic Principles and Calculations in Process Technology T. David Griffith, 2016 , Rules of Thumb for Chemical Engineers Carl Branan, 2002 Fractionators separators and accumulators cooling towers gas treating blending troubleshooting field cases gas solubility and density of irregular solids Hundreds of common sense techniques shortcuts and calculations *Rules of Thumb for Chemical Engineers* Stephen M Hall, 2011-03-31 This new edition of the most complete handbook for chemical and process engineers incorporates the latest information for engineers and practitioners who depend on it as a working tool New material explores the recent trends and updates of gas treating and fractionator computer solutions analysis Substantial additions to this edition include a new section on gasification that reflects the many new trends and techniques in the field and a treatment on compressible fluid flow This convenient volume provides engineers with hundreds of common sense techniques shortcuts and calculations to quickly and accurately solve day to day design operations and equipment problems Here in a compact easy to use format are practical tips handy formulas correlations curves charts tables and shortcut methods that will save engineers valuable time and effort The standard handbook for chemical and process engineers All new material on pinch point analysis on networks of heat exchangers and updates on gas treating in process design and heat transfer Hundreds of common sense techniques and calculations

CHEMICAL PROCESS CALCULATIONS D. C. SIKDAR, 2013-05-22 Keeping the importance of basic tools of process calculations material balance and energy balance in mind the text prepares the students to formulate material and energy balance theory on chemical process systems It also demonstrates how to solve the main process related problems that crop up in chemical engineering practice The chapters are organized in a way that enables the students to acquire an in depth

understanding of the subject The emphasis is given to the units and conversions basic concepts of calculations material balance with and without chemical reactions and combustion of fuels and energy balances Apart from numerous illustrations the book contains numerous solved problems and exercises which bridge the gap between theoretical learning and practical implementation All the numerical problems are solved with block diagrams to reinforce the understanding of the concepts Primarily intended as a text for the undergraduate students of chemical engineering it will also be useful for other allied branches of chemical engineering such as polymer science and engineering and petroleum engineering

KEY FEATURES

Methods of calculation for stoichiometric proportions with practical examples from the Industry Simplified method of solving numerical problems under material balance with and without chemical reactions Conversions of chemical engineering equations from one unit to another Solution of fuel and combustion and energy balance problems using tabular column

Handbook of Chemical Engineering Calculations Nicholas P. Chokey, 1984 If solving chemical engineering problems quickly and accurately is key to your work here is an invaluable info packed resource McGraw Hill's Handbook of Chemical Engineering Calculations Fully revised and expanded this Third Edition delivers step by step procedures for performing a wide array of chemical engineering calculations along with fully worked out examples that help you avoid costly errors

Book jacket *Stoichiometry and Process Calculations* Mr. Rohit Manglik, 2024-01-22 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Decoding **Process Calculation For Chemical Engineers**: Revealing the Captivating Potential of Verbal Expression

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