



Chemical Process Calculations

Autumn 2021

Instructor:

Dr. Sushant Kumar
Department of Chemical and Biochemical Engineering
Indian Institute of Technology, Patna

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Energy Balances

Thu 10/21/2021

Laws of Thermochemistry:

At a given temperature and pressure, the quantity of energy required to decompose a chemical compound into its elements is precisely equal to that evolved in the formation of that compound from its elements.

Law of Constant-heat Summation:

It states that the net heat evolved or absorbed in a chemical process is the same whether the reaction takes place in one or in several steps. The total change in enthalpy of a system is dependent on the temperature, pressure, state of aggregation, and state of combination at the beginning and at the end of the reaction and is independent of the number of intermediate chemical reactions involved. This principle is known as the **law of Hess**.

Hence, using this principle, it is possible to calculate the heat of formation of a compound from a series of reactions not involving the direct formation of the compound from the elements. The majority of chemical compounds cannot be formed in the pure state directly from the

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Gaikwad R.W.



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Chemical Process Calculations K. Asokan, 2008-04-16 Moving from raw material to finished product this book demonstrates how to solve the main process related problems that crop up in chemical engineering practice It demonstrates the steps required to determine how much of various materials and chemicals are needed to satisfy output requirements and how to compensate for energy gained or lost for each step of the process Presenting easy to understand methods illustrations worked examples and practice problems that are ideal for students it provides access to a wealth of current calculations needed by chemical process professionals in petroleum petrochemicals and biotechnology

Introduction to Process Calculations Stoichiometry KA. Gavhane, 2012

Chemical Process Calculations Gaikwad R.W., 2008-01-01 Contents 1 Introduction 2 Materials and Mixtures 3 System and Conservation Laws 4 Material Balance with and without Chemical Reactions 5 Energy Balances 6 Fuels and Combustion 7 Problems and Solutions References

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 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

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

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Process Calculations N. Anantharaman, 2004-10

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 Himmelblau, James Riggs, 2021-12-15

Basic Principles and Calculations in Chemical Engineering David M. Himmelblau, 1995

STOICHIOMETRY AND PROCESS CALCULATIONS, SECOND EDITION NARAYANAN, K. V., LAKSHMIKUTTY, B., 2016-12-01 Designed as a textbook for the undergraduate students of chemical engineering and related disciplines such as biotechnology polymer technology petrochemical engineering electrochemical engineering environmental engineering and safety engineering the chief objective of the book is to prepare students to make analysis of chemical processes through calculations and to develop systematic problem solving skills in them The text presents the fundamentals of chemical engineering operations and processes in a simple style that helps the students to gain a thorough understanding of chemical process calculations The book deals with the principles of stoichiometry to formulate and solve material and energy balance problems in processes with and without chemical reactions 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 The book is supplemented with Solutions Manual for instructors containing detailed solutions of

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