

# Chemical Process Calculations



D.C. Sikdar

# **Book Of Chemical Process Calculations By D C Sikdar**

Rakesh K. Bajpai, Aleš Prokop

# **Book Of Chemical Process Calculations By D C Sikdar:**

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.

Indian National Bibliography B. S. Kesavan, 2015-05 **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 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 **American Book Publishing Record Cumulative** 1993 R R Bowker Publishing, 1994-03 Cited in BCL3 Sheehy and Walford Compiled from the 12 monthly issues of the ABPR this edition of the annual cumulation lists by Dewey sequence some 41 700 titles for books published or distributed in the US Entry information is derived from MARC II tapes and books submitted to R R Bowker an **Annals of the New York** Academy of Sciences Thomas Lincoln Casey, Gilbert Van Ingen, Charles Lane Poor, Edmund Otis Hovey, Ralph Winfred Tower, 2003 Records of meetings 1808 1916 in v 11 27 **Fundamentals in Chemical Process Calculations** Otto L. Kowalke.1951 **Recombinant DNA Technology II** Rakesh K. Bajpai, Aleš Prokop, 1994 This text addresses many of the practical concerns and techniques for employing genetic manipulation in micro organisms plants and animals linking the disciplines of molecular biology and process engineering The contributors represent a broad sample of the researchers in the field aiming to provide a useful single volume that spans the entire scope of the technologies that can alter the genomes of many living species 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 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 **Fundamentals in Chemical Process Calculations** Otto Louis Kowalke,1957 **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 Chemical Process Calculations Manual David Carr Igbinoghene, 2004 This compact information dense resource provides instant access to hundreds of the calculations used in chemical process plants around the world Readers will also find a

wealth of useful tables for the density of gaseous and temperature of liquids Midwest **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 **Foundamentals in Chemical Process Calculations** Otto L. Kowalke.1947 **Handbook of Chemical Engineering Calculations** Nicholas P. Chopey, 1994 A compilation of the calculation procedures needed every day on the job by chemical engineers Tables of Contents Physical and Chemical Properties Stoichiometry Phase Equilibrium Chemical Reaction Equilibrium Reaction Kinetics and Reactor Design Flow of Fluids and Solids Heat Transfer Distillation Extraction and Leaching Crystallization Filtration Liquid Agitation Size Reduction Drying Evaporation Environmental Engineering in the Plant Illustrations Index **Process Calculations for Chemical Engineers** Indian Institute of Technology (Chennai, India). Chemical Engineering Education Development Centre, 1975 Introduction to Process Calculations Stoichiometry KA. Gavhane, 2012 Chemical Process Calculations Mr. Rohit Manglik, 2024-07-13 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

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