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# Chemical Process Calculations



D.C. Sikdar

# Book Of Chemical Process Calculations By D C Sikdar

**Indian Institute of Technology  
(Chennai, India). Chemical Engineering  
Education Development Centre**



### **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

**Technische Chemie** Manfred Baerns, Arno Behr, Axel Brehm, Jürgen Gmehling, Kai-Olaf Hinrichsen, Hanns Hofmann, Michael Kleiber, Norbert Kockmann, Ulfert Onken, Regina Palkovits, Albert Renken, Dieter Vogt, 2023-03-13 Das grundlegende Lehrbuch der Technischen Chemie mit hohem Praxisbezug in der dritten Auflage beschreibt didaktisch u erst gelungen die Bereiche chemische Reaktionstechnik Grundoperationen Verfahrensentwicklung sowie chemische Prozesse alle Kapitel wurden komplett bearbeitet und aktualisiert zahlreiche Fragen als Zusatzmaterial f r Studenten online auf Wiley VCH erh ltlich unterst tzt das Lernen durch zahlreiche im Text eingestreute Rechenbeispiele inklusive L sung setzt neben einem grundlegenden chemischen Verst ndnis und Grundkenntnissen der Physikalischen Chemie und Mathematik kein Spezialwissen voraus **NEU** Neue Technologien und Rohstoffe relevant f r moderne industrielle Prozesse Ideal f r Studierende der Chemie des Chemieingenieurwesens und der Verfahrenstechnik in Bachelor und Masterstudieng ngen **Indian**

**National Bibliography** B. S. Kesavan, 2015-05 **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**

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*Chemical Process Calculations* K. Asokan,2007 *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 **Fundamentals in Chemical Process Calculations** Otto L. Kowalke,1951 **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 **Chemical Process Calculations Manual** David Carr Igbinooghene,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** N. Anantharaman,2004-10 *Process Calculations for Chemical Engineers* Indian Institute of Technology (Chennai, India). Chemical Engineering Education Development Centre,1975 *Fundamentals in Chemical Process Calculations* Otto L. Kowalke,1947 **Chemical Principles & Process Calculations** K. L. Shivabasappa,2007

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