

Downloads Of Chemical Process Calculations By D C Sikdar

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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

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

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

packed with case studies and problem calculations handbook of food processing food preservation presents the information necessary to design food processing operations and goes on to describe the equipment needed to carry them out in detail the book covers every step in the sequence of converting raw material to the final product it also discus

food processing food processing principles and applications second edition is the fully revised new edition of this best selling food technology title advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans in addition to covering food processing principles that have long been essential to food quality and safety this edition of food processing principles and applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry the book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications as a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

written for the upper level undergraduate this updated book is also a solid reference for the graduate food engineering student and professional this edition features the addition of sections on freezing pumps the use of chemical reaction kinetic data for thermal process optimization and vacuum belt drying new sections on accurate temperature measurements microbiological inactivation curves inactivation of microorganisms and enzymes pasteurization and entrainment are included as are non linear curve fitting and processes dependent on fluid film thickness other sections have been expanded

the book discusses the study and implementation of controlling in the modern enterprise from the perspective of industry 4.0 which helps ensure the efficient and effective use of

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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

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

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

explains the basic chemical process principles 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 are described

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

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