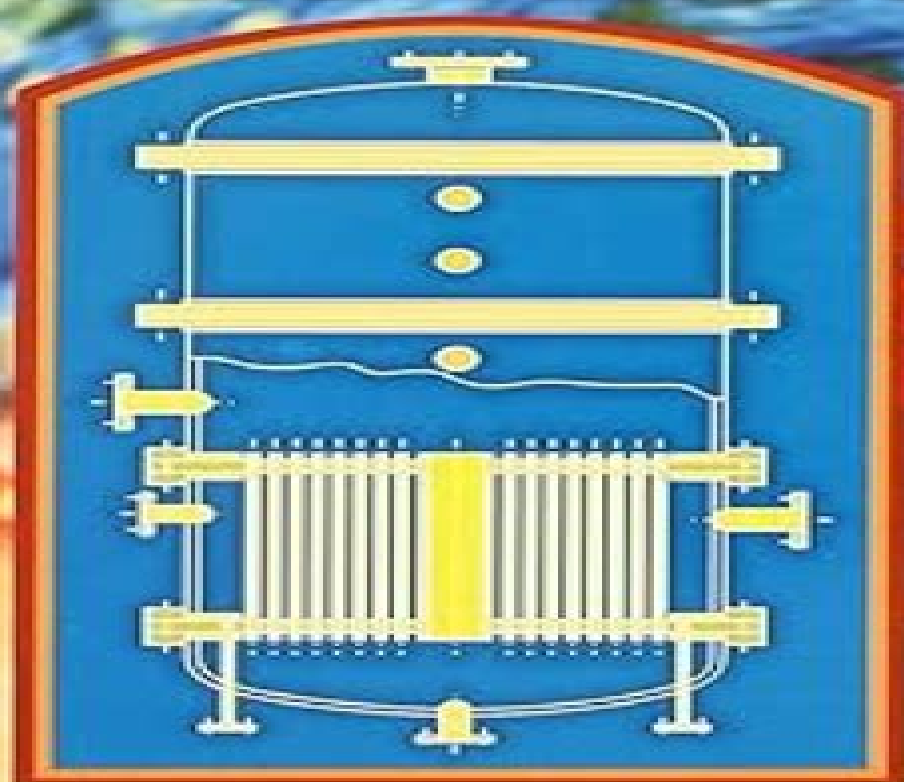


Volume I

Eastern
Economy
Edition

CHEMICAL PROCESS EQUIPMENT *Design and Drawing*



Suresh C. Maidargi

Chemical Process Equipment Design And Drawing Vol I

J Spring



Chemical Process Equipment Design And Drawing Vol I:

CHEMICAL PROCESS EQUIPMENT MAIDARGI, SURESH C., 2015-10-28 This text introduces the students and practicing engineers to the practices and standards of drafting the equipment used in chemical food processing polymer engineering and pharmaceuticals processing industries The textbook follows the Bureau of Indian Standards BIS 696 1972 specifications and methodology of equipment drawing It introduces to the symbolic representations of the equipment as used in the chemical food processing and pharma industries It provides the detailed drawings of some commonly used equipment that are repeatedly used in different sizes and shapes Orthographic and assembled views are illustrated Several assignments have been suggested for practicing the drawing In this second edition a new chapter on computerized drawing method has been introduced For this solid edge software has been used Though the software itself guides the readers through the making of drawing of the parts and their assemblies guidelines to use software is also given The text is intended for the undergraduate students of chemical and its related branches such as polymer engineering petroleum engineering and pipeline engineering

CHEMICAL PROCESS EQUIPMENT SURESH C. MAIDARGI, 2012-11-17 This text introduces the student to the practices and standards of making drawings for equipment used in chemical industries The textbook follows the Bureau of Indian Standards BIS 696 1972 specifications and methodology of equipment drawings It uses the symbolic representations of the equipment as used in the industry and provides the detailed drawings of some commonly used equipment It includes numerous orthographic and assembled views of equipment and provides several photographs to relate these drawings to equipment used in industries Finally the book includes several assignments to reinforce the concepts discussed in the text The text is intended for the undergraduate students of chemical engineering and its related branches such as polymer engineering petroleum engineering and pipeline engineering

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 *CHEMICAL PROCESS TECHNOLOGY AND SIMULATION* KOYIKKAL, SRIKUMAR, 2013-04-08 This book is designed to apprise the students of chemical engineering with a variety of different processes of chemical technologies The book is richly illustrated and covers the essential information with the help of flow diagrams enabling the students to gain a full understanding of both the fundamental concepts and chemical reactions involved in process technologies Newer technologies have been dealt with and some technologies which have lost their relevance have been omitted Computer simulation methods have been described for many important technologies In short the book considers computer design tools and design software in a manner that integrates this knowledge smoothly into the main subject The book is expected to become useful not only to the students for courses in Chemical Technology but also to practising engineers and process designers for innovative process development There are topics on natural products and fermentation process chemicals organic chemicals inorganic chemicals refinery operations oil and gas operations and nanotechnology products In some of these topics computer simulation and costing examples are included An illustration of modelling and simulation using C is also given as an example of user written programs for simulation Another method that can be used for simulation is the use of spreadsheets which is also described with the help of an example A new important topic of today being polysilicon used in the manufacture of computer chips and solar panels is also covered in detail Mass Transfer A. P. SINHA, PARAMESWAR DE, 2012-05-09 This book introduces the fundamental principles of the mass transfer phenomenon and its diverse applications in process industry It covers the full spectrum of techniques for chemical separations and extraction Beginning with molecular diffusion in gases liquids and solids within a single phase the mechanism of inter phase mass transfer is explained with the help of several theories The separation operations are explained comprehensively in two distinct ways stage wise contact and continuous differential contact The primary design requirements of gas liquid equipment are discussed The book provides a detailed discussion on all individual gas liquid liquid liquid solid gas and solid liquid separation processes The students are also exposed to the underlying principles of the membrane based separation processes The book is replete with real applications of separation processes and equipment Problems are worked out in each chapter Besides problems with answers short questions multiple choice questions with answers are given at the end of each chapter The text is intended for a course on mass transfer transport and separation processes prescribed for the undergraduate and postgraduate students of chemical engineering **PLANT OPERATION - MAINTENANCE AND MANAGEMENT - Volume I**, 2010-10-23 Plant Operation Maintenance And Management is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The volume presents state of the art subject matter of various aspects of Plant Operation Maintenance And Management such as Operation Of A Desalination

Plant Planning Management Operation And Maintenance Of Desalination Plants Accident Prevention In Desalination Plants Process Safety The Desalination Project Demand Assessment And The Supply Demand Balance Process Selection Project Design Concept Contract Make Up Main And Subcontractor Planning Scheduling And Progress Measurement Fire Retardant Materials And Safety Past Present Future New Types Of Ecologically Friendly Flame Retardants This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers **Journal of the Engineering Institute of Canada** ,1921 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 **Engineering Journal** ,1930 *Process Equipment Design Vol. 1 5/ed. Dawande Dr. S.D.*, Contents 1 Chemical Process Plant Materials 2 Pressure Vessels 3 Vessel Supports 4 Flanges and Nozzles 5 Mixing and Agitation 6 Storage Tanks 7 Process Pumps 8 Pipelines 9 Valves and Relief Devices Tables Exercise for Drawing Index Chemical Process Equipment James R. Couper,W Roy Penney,James R. Fair PhD,2012-12-06 Chemical Process Equipment is a results oriented reference for engineers who specify design maintain or run chemical and process plants This book delivers information on the selection sizing and operation of process equipment in a format that enables quick and accurate decision making on standard process and equipment choices saving time improving productivity and building understanding Coverage emphasizes common real world equipment design rather than experimental or esoteric and focuses on maximizing performance Legacy reference for chemical and related engineers who work with vendors to design specify and make final equipment selection decisions Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment Provides equipment rating forms and manufacturers data worked examples valuable shortcut methods and rules of thumb to demonstrate and support the design process Heavily illustrated with line drawings and schematics to aid understanding as well as graphs and tables to illustrate performance data Mechanical Engineering ,1919 *Chemical Process Equipment* ,2010 A facility is only as efficient and profitable as the equipment that is in it This highly influential book is a powerful resource for chemical process or plant engineers who need to select design or configure plant successfully and profitably Written by some of the most experienced and well known chemical and process engineers in the industry today this information packed volume gives the chemical or process engineer or engineering student all of the guidelines for the design and selection of chemical process equipment Comprehensive and practical its scope and emphasis on real world process design and performance of equipment will prove invaluable for day to day problem solving The comprehensive and influential guide to the selection and design of a wide range of chemical process equipment used by engineers globally Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment Revised edition new material includes updated equipment cost data liquid solid and solid systems and the latest information on membrane separation technology Provides equipment rating forms and manufacturers data worked examples

valuable shortcut methods rules of thumb and equipment rating forms to demonstrate and support the design process
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