

Introduction To Chemical Engineering Thermodynamics The McGraw Hill Chemical Engineering Series

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Physical Principles of Chemical Engineering The Plenum Chemical Engineering Series Separation Processes. (Chemical Engineering Series) Plant Design and Economics for Chemical Engineers *CHEMICAL ENGINEERING SERIES. Ray Sinnott J R Backhurst Warren Lee McCabe Small Business Publications R.K. Sinnott M. Van Winkle American Institute of Chemical Engineers D. Leo Pyle Joseph Mauk Smith Ray Sinnott Peter Grassmann C. J. King Max S. Peters*

an introduction to the art and practice of design as applied to chemical processes and equipment it is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the uk and usa it has been written to complement the treatment of chemical engineering fundamentals given in chemical engineering volumes 1 2 and 3 examples are given in each chapter to illustrate the design methods presented

process plant design provides an introduction to the basic principles of plant design and shows how the fundamentals of design can be blended with commercial aspects to produce a final specification how textbook parameters can be applied to the solution of real problems and how training in chemical engineering can best be utilized in the industrial sphere it has been assumed that the reader knows how to calculate a heat transfer coefficient and the height of an absorber for example and the bulk of the book is concerned with the translation of such parameters into plant items which are ultimately linked into the production unit the book follows a fairly logical sequence in which flowsheets heat and mass balances for example are considered before attention is paid to the design of plant items exchangers columns and so on because of the vital role of economics in any design function costing is dealt with early in the book and the principles further developed as appropriate rarely is the plant designer concerned with the design of smaller and standard items of equipment and hence considerable emphasis is placed on the selection of such items this section may prove of particular value to the engineer in industry especially if he has not the backing of comprehensive technical manuals produced by the larger companies finally an attempt is made to draw together the many facets of equipment design into

one specification for the complete plant and the many aspects relating to the completed unit are introduced in a final section

industrial food processing involves the production of added value foods on a large scale these foods are made by mixing and processing different ingredients in a prescribed way the food industry historically has not designed its processes in an engineering sense i e by understanding the physical and chemical principles which govern the operation of the plant and then using those principles to develop a process rather processes have been designed by purchasing equipment from a range of suppliers and then connecting that equipment together to form a complete process when the process being run has essentially been scaled up from the kitchen then this may not matter however there are limits to the approach as the industry becomes more sophisticated and economies of scale are exploited then the size of plant reaches a scale where systematic design techniques are needed the range of processes and products made by the food industry has increased to include foods which have no kitchen counterpart such as low fat spreads it is vital to ensure the quality and safety of the product plant must be flexible and able to cope with the need to make a variety of products from a range of ingredients this is especially important as markets evolve with time the traditional design process cannot readily handle multi product and multi stream operations processes must be energetically efficient and meet modern environmental standards

chemical engineering design si edition is one of the best known and most widely used textbooks available for students of chemical engineering the enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity this new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards includes new content covering food pharmaceutical and biological processes and the unit operations commonly used features expanded coverage on the design of reactors provides updates on plant and equipment costs

regulations and technical standards integrates coverage with honeywell s unisim software for process design and simulation includes online access to engineering s cleopatra cost estimating software

physical principles of chemical engineering covers the significant advancements in the understanding of the physical principles of chemical engineering this book is composed of 12 chapters that describe chemical unit processes through analogy with the unit of operations of chemical engineering the introductory chapters survey the concept and principles of mass and energy balances as well as the application of entropy the next chapters deal with the probability and kinetic theories of gases the physical aspects of solids the different dispersed systems and the principles and application of fluid dynamics other chapters discuss the property dimension and model theory heat mass and momentum transfer and the characteristics of multiphase flow processes the final chapters review the model of rheological bodies the molecular kinetic interpretations of rheological behavior and the principles of reaction kinetics this book will prove useful to chemical engineers

the fifth edition of plant design and economics for chemical engineers is a major revision of the popular fourth edition there are new chapters on process synthesis computer aided design and design of chemical reactors a traditionally strong feature of the text economic analysis has been revamped and updated another strength equipment sizing and cost estimation is updated and expanded as well these improvements also reflect changes in equipment availability the numerous real examples throughout the book include computer or hand solutions and often both there is a new increased emphasis on computer use in design economic evaluation and optimization concepts strategies and approaches to computer use are featured these concepts are not tied to particular software programs and therefore apply to wide a range of applications software of both current and future release this widely used text is now more useful than ever providing a one stop guide to chemical process design and evaluation

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