

# Introduction To Chemical Engineering Thermodynamics The McGraw Hill Chemical Engineering Series

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Engineering Kinetics Spons Chemical Engineering Series The Plenum Chemical Engineering Series Chemical Engineering Progress Symposium Series Separation Processes. (Chemical Engineering Series) *Ray Sinnott CHEMICAL ENGINEERING SERIES. J R Backhurst Ray Sinnott Warren Lee McCabe Joseph Mauk Smith M. Van Winkle Warren L. I Smith McCabe (Julian C.) R.K. Sinnott Small Business Publications Peter Grassmann Joe Mauk Smith American Institute of Chemical Engineers C. J. King*

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

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

recently published unit operations of chemical engineering 7th edition continues its lengthy successful tradition of being one of mcgraw hill s oldest texts in the chemical engineering series since 1956 this text has been the most comprehensive of the introductory undergraduate chemical engineering titles available separate chapters are devoted to each of the principle unit operations grouped into four sections fluid mechanics heat transfer mass transfer and equilibrium stages and operations involving particulate solids now in its seventh edition the text still contains its balanced treatment of theory and engineering practice with many practical illustrative examples included almost 30 of the problems have been revised or are new some of which cover modern topics such as food processing and biotechnology other unique topics of this text include diafiltration adsorption and membrane operations

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

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