



David M. Himmelblau

Basic Principles and Calculations in Chemical Engineering

6th Edition

Prentice Hall International Series
in the Physical and Chemical
Engineering Sciences



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Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright's *Chemical Engineering Handbook* represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers From fundamentals to plant operations Albright's *Chemical Engineering Handbook* offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications This handbook will serve the needs of practicing professionals as well as students preparing to enter the field

Chemical Process Equipment - Selection and Design (Revised 2nd Edition) James R. Couper, W Roy Penney, James R. Fair PhD, 2009-08-11 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 It includes updated information on design methods for all standard equipment with an emphasis on real world process design and performance 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 Heavily illustrated with many line drawings and schematics to aid understanding graphs and tables to illustrate performance data

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

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Chemical Engineering Design and Analysis T. Michael Duncan, Jeffrey A. Reimer, 2019-01-24 The go to guide to learn the principles and practices of design and analysis in chemical engineering

The Art of Modeling in Science and Engineering with Mathematica Diran Basmadjian, 2019-07-17 Modeling is practiced in engineering and all physical sciences Many specialized texts exist written at a high level that cover this subject However students and even professionals often experience difficulties in setting up and solving even the simplest of models This can be attributed to three difficulties the proper choice of model the absence of precise solutions and the necessity to make suitable simplifying assumptions and approximations Overcoming these difficulties is the focus of The Art of Modeling in Science and Engineering The text is designed for advanced undergraduate and graduate students and practicing professionals in the sciences and engineering with an interest in Modeling based on Mass Energy and Momentum or Force Balances The book covers a wide range of physical processes and phenomena drawn from chemical mechanical civil environmental sciences and bio sciences A separate section is devoted to real World industrial problems The author explains how to choose the simplest model obtain an appropriate solution to the problem and make simplifying assumptions approximations

Numerical Methods for Chemical Engineers with MATLAB Applications A. Constantinides, Navid Mostoufi, 1999 Master numerical methods using MATLAB today s leading software for problem solving This complete guide to numerical methods in chemical engineering is the first to take full advantage of MATLAB s powerful calculation environment Every chapter contains several examples using general MATLAB functions that implement the method and can also be applied to many other problems in the same category The authors begin by introducing the solution of nonlinear equations using several standard approaches including methods of successive substitution and linear interpolation the Wegstein method the Newton Raphson method the Eigenvalue method and synthetic division algorithms With these fundamentals in hand they move on to simultaneous linear algebraic equations covering matrix and vector operations Cramer s rule Gauss methods the Jacobi method and the characteristic value problem Additional coverage includes Finite difference methods and interpolation of equally and unequally spaced points Numerical differentiation and integration including differentiation by backward forward and central finite differences Newton Cotes formulas and the Gauss Quadrature Two detailed chapters on ordinary and partial differential equations Linear and nonlinear regression analyses including least squares estimated vector of parameters method of steepest descent Gauss Newton method Marquardt Method Newton Method and multiple nonlinear regression The numerical methods covered here represent virtually all of those commonly used by practicing chemical engineers The focus on MATLAB enables readers to

accomplish more with less complexity than was possible with traditional FORTRAN For those unfamiliar with MATLAB a brief introduction is provided as an Appendix Over 60 MATLAB examples methods and function scripts are covered and all of them are included on the book's CD

Computer Programs for Chemical Engineering Education: Stoichiometry, by E. Henley.-v.2. Kinetics, by M. Reilly.-v.3. Control, by A. Westerberg.-v.4. Transport, by R. Gordon.-v.5. Thermodynamics, by R.M. Jelinek.-v.6. Design, by R.V. Jelinek.-v.7. Stagewise computations, by J.H. Christensen, 1972

Chemical Engineering Dilip K. Das, Rajaram K. Prabhudesai, 2005 Recently expanded to cover both the breadth and depth topics of the PE exam this review covers key equations concepts analytical techniques and practical applications Also includes an overview of the exam and recommendations on how to prepare

Books in Print Supplement, 1985

Basic Principles and Calculations in Chemical Engineering, Fourth Edition David Mautner Himmelblau, 1982

Applied Numerical Analysis Using MATLAB Laurene V. Fausett, 1999 Each chapter uses introductory problems from specific applications These easy to understand problems clarify for the reader the need for a particular mathematical technique Numerical techniques are explained with an emphasis on why they work

FEATURES Discussion of the contexts and reasons for selection of each problem and solution method Worked out examples are very realistic and not contrived MATLAB code provides an easy test bed for algorithmic ideas

1996 31st Intersociety Energy Conversion Engineering Conference, 1996 A recognizable shift towards renewable energy sources is documented by the many papers in this area Energy management for economical and thermal efficiency via computer control is examined in many cases High storage densities applicable to vehicle use are explored

The Chartered Mechanical Engineer, 1968

Scientific and Technical Books in Print, 1972

Chemical Engineering Education, 2002

AICHEMI Modular Instruction American Institute of Chemical Engineers, 1981

Technical Association of the Pulp and Paper Industry, 1975

Applied Fluid Mechanics Tasos C. Papanastasiou, 1994 This comprehensive volume enables readers to develop an understanding of the principles of fluid mechanics and to utilize problem solving approaches for handling transferring and processing fluids

Applied Fluid Mechanics emphasizes microscopic differential transport and lubrication type flows which are essential in the emerging area of materials processing covers hydrostatics and capillarity piping and hydraulics problems meteorology and air pollution materials processing flows thin film and coating flows lubrication and stretching flows and turbulent flows and mixing presents step by step instruction reasoning and examples providing a systematic approach to solving both macroscopic and microscopic problems and offers convenient dual approaches to flow analysis by control volume and by the Navier Stokes equations

Bookseller and the Stationery Trades' Journal, 1967

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