ANALYSIS, SYNTHESIS, AND DESIGN OF CHEMICAL PROCESSES

FIFTH EDITION

RICHARD TURTON | JOSEPH A. SHAEIWITZ FRANCSLI RHATTACHARY

Jessica W. Castillo, Richard Turton, Richard C. Bailie, Wallace Whiting, Joseph A. Shaeiwitz

Solutions Manual for Analysis, Synthesis, and Design of Chemical Processes Jessica W. Castillo, Richard Turton, Richard C. Bailie, Wallace Whiting, Joseph A. Shaeiwitz, 2012-09-14 Solution Manual for Analysis, Synthesis, and Design of Chemical Analysis, Synthesis, and Design of Chemical Processes Richard Turton, 2012 Process design is the Processes ,2009 focal point of chemical engineering practice the creative activity through which engineers continuously improve facility operations to create products that enhance life Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills so they can analyze both the big picture and minute details and know when to focus on each Through three previous editions this book has established itself as the leading resource for students seeking to apply what they ve learned in real world open ended process problems The authors help students hone and synthesize their design skills through expert coverage of preliminary equipment sizing flowsheet optimization economic evaluation operation and control simulation and other key topics This new Fourth Edition is extensively updated to reflect new technologies simulation techniques and process control strategies and to include new pedagogical features including concise summaries and end of chapter lists of skills and knowledge Pub desc **Problem Solving in Chemical and Biochemical** Engineering with POLYMATH, Excel, and MATLAB Michael B. Cutlip, Mordechai Shacham, 2008 Problem Solving in Chemical and Biochemical Engineering with POLYMATH Excel and MATLAB Second Edition is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages POLYMATH Microsoft Excel and MATLAB Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages while taking full advantage of the unique capabilities within each package The book includes more than 170 problems requiring numerical solutions This greatly expanded and revised second edition includes new chapters on getting started with and using Excel and MATLAB It also places special emphasis on biochemical engineering with a major chapter on the subject and with the integration of biochemical problems throughout the book General Topics and Subject Areas Organized by Chapter Introduction to Problem Solving with Mathematical Software Packages Basic Principles and Calculations Regression and Correlation of Data Introduction to Problem Solving with Excel Introduction to Problem Solving with MATLAB Advanced Problem Solving Techniques Thermodynamics Fluid Mechanics Heat Transfer Mass Transfer Chemical Reaction Engineering Phase Equilibrium and Distillation Process Dynamics and Control Biochemical Engineering Practical Aspects of Problem Solving Capabilities Simultaneous Linear Equations Simultaneous Nonlinear Equations Linear Multiple Linear and Nonlinear Regressions with Statistical Analyses Partial Differential Equations Using the Numerical Method of Lines Curve Fitting by Polynomials with Statistical Analysis Simultaneous Ordinary Differential Equations Including Problems Involving Stiff Systems Differential Algebraic Equations and Parameter Estimation in Systems of Ordinary Differential Equations The Book s Web Site http www problemsolvingbook com Provides solved and partially solved problem files for all three software packages plus additional materials Describes discounted purchase options for educational version of POLYMATH available to book purchasers Includes detailed selected problem solutions in Maple Mathcad and Mathematica

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