

P2-9 (cont'd)

80% conversion in PFR:

r_A is not known for $X > 0.60$ – can not do.

(e) 50 % in CSTR:

$$\tau = C_{A0} \frac{X}{-r_A} = 30,422.9 \text{ s}$$

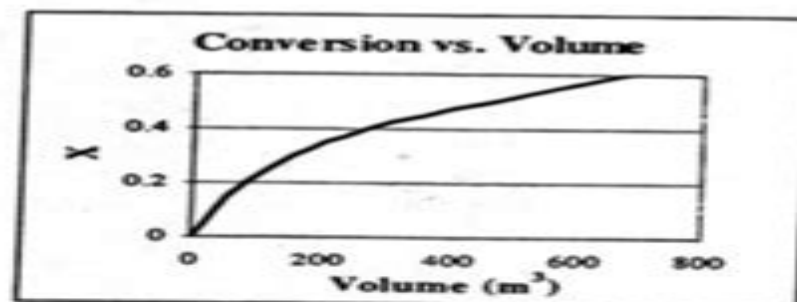
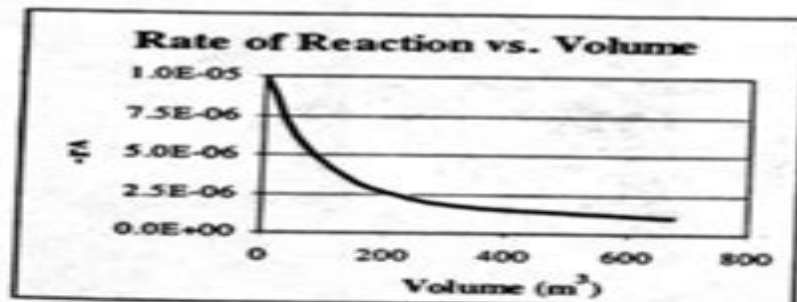
$$V = v_0 \tau = (30,422.9 \text{ s}) \left(\frac{1 \text{ min}}{60 \text{ s}} \right) (2 \text{ m}^3/\text{min}) = 1014.1 \text{ m}^3$$

(f) 50 to 60% conversion in CSTR:

$$\tau = \frac{C_{A0} (X_2 - X_1)}{-r_{A2}} = 8112.8$$

$$V = v_0 \tau = (8112.8 \text{ s}) \left(\frac{1 \text{ min}}{60 \text{ s}} \right) (2 \text{ m}^3/\text{min}) = 270.4 \text{ m}^3$$

(g)



(h) Critique
Answers are Valid:

1. Constant Temperature and Pressure
No heat effects
No pressure drop
2. Single interpolation to $X_A = 0.15, 0.30, 0.45,$ and 0.50 allowable
3. Huge volume (the size of the LA Basin)! Raise T? Raise P?

Fogler Solutions

Faruk Civan



Fogler Solutions:

Analysis, Synthesis and Design of Chemical Processes Richard Turton, Richard C. Bailie, Wallace B. Whiting, Joseph A. Shaeiwitz, 2008-12-24 The Leading Integrated Chemical Process Design Guide Now with New Problems New Projects and More More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details and knows which to stress when and why Realistic from start to finish this book moves readers beyond classroom exercises into open ended real world process problem solving The authors introduce integrated techniques for every facet of the discipline from finance to operations new plant design to existing process optimization This fully updated Third Edition presents entirely new problems at the end of every chapter It also adds extensive coverage of batch process design including realistic examples of equipment sizing for batch sequencing batch scheduling for multi product plants improving production via intermediate storage and parallel equipment and new optimization techniques specifically for batch processes Coverage includes Conceptualizing and analyzing chemical processes flow diagrams tracing process conditions and more Chemical process economics analyzing capital and manufacturing costs and predicting or assessing profitability Synthesizing and optimizing chemical processing experience based principles BFD PFD simulations and more Analyzing process performance via I O models performance curves and other tools Process troubleshooting and debottlenecking Chemical engineering design and society ethics professionalism health safety and new green engineering techniques Participating successfully in chemical engineering design teams Analysis Synthesis and Design of Chemical Processes Third Edition draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University It includes suggested curricula for both single semester and year long design courses case studies and design projects with practical applications and appendixes with current equipment cost data and preliminary design information for eleven chemical processes including seven brand new to this edition

18th European Symposium on Computer Aided Process Engineering Bertrand Braunschweig, Xavier Joulia, 2008-06-18 Plenary Lectures Topic 1 Off Line Systems Topic 2 On Line Systems Topic 3 Computational Numerical Solutions Strategies Topic 4 Integrated And Multiscale Modelling And Simulation Topic 5 Cape For The Users Topic 6 Cape And Society Topic 7 Cape In Education

Chemical Weathering Rates of Silicate Minerals Arthur F. White, Susan L. Brantley, 2018-12-17 Volume 31 of Reviews in Mineralogy reviews current thinking on the fundamental processes that control chemical weathering of silicates including the physical chemistry of reactions at mineral surfaces the role of experimental design in isolating and quantifying these reactions and the complex roles that water chemistry hydrology biology and climate play in weathering of natural systems The chapters in this volume are arranged to parallel this order of development from theoretical considerations to experimental studies to characterization of natural systems Secondly the book is meant to serve as a reference from which researchers can readily retrieve quantitative weathering rate data for specific minerals under

detailed experimental controls or for natural weathering conditions Toward this objective the authors were encouraged to tabulate available weathering rate data for their specific topics Finally this volume serves as a forum in which suggestions and speculations concerning the direction of future weathering research are discussed *Reservoir Formation Damage* Faruk Civan,2023-04-07 Reservoir Formation Damage Fundamentals Modeling Assessment and Mitigation Fourth Edition gives engineers a structured layout to predict and improve productivity providing strategies recent developments and methods for more successful operations Updated with many new chapters including completion damage effects for fractured wells flow assurance and fluid damage effects the book will help engineers better tackle today s assets Additional new chapters include bacterial induced formation damage new aspects of chemically induced formation damage and new field application designs and cost assessments for measures and strategies Additional procedures for unconventional reservoirs get the engineer up to date Structured to progress through your career Reservoir Formation Damage Fourth Edition continues to deliver a trusted source for both petroleum and reservoir engineers Covers new applications through case studies and test questions Bridges theory and practice with detailed illustrations and a structured progression of chapter topics Considers environmental aspects with new content on water control conformance and produced water reinjection

Theory and Practice in Microbial Enhanced Oil Recovery Kun Sang Lee,Tae-Hyuk Kwon,Taehyung Park,Moon Sik Jeong,2020-07-18 Selection of the optimal recovery method is significantly influenced by economic issues in today s oil and gas markets Consequently the development of cost effective technologies which bring maximum oil recovery is the main interest in today s petroleum research communities Theory and Practice in Microbial Enhanced Oil Recovery provides the fundamentals latest research and creditable field applications Microbial Enhanced Oil Recovery MEOR is potentially a low priced and eco friendly technique in which different microorganisms and their metabolic products are implemented to recover the remaining oil in the reservoir Despite drastic advantages of MEOR technology it is still not fully supported in the industry due to lack of knowledge on microbial activities and their complexity of the process While some selected strategies have demonstrated the feasibility to be used on a mass scale through both lab and field trials more research remains to implement MEOR into more oil industry practices This reference delivers comprehensive descriptions on the fundamentals including basic theories on geomicrobiology experiments and modeling as well as current tested field applications Theory and Practice in Microbial Enhanced Oil Recovery gives engineers and researchers the tool needed to stay up to date on this evolving and more sustainable technology Covers fundamental screening criteria and theories selective plugging and mobility control mechanisms Describes the basic effects on environmental parameters and the mechanics of simulation including microbial growth kinetics Applies up to date practical applications proven in both the lab and the field [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

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Solutions Manual for Elements of Chemical Reaction Engineering, 4th Ed Brian Vicente, H. Scott Fogler, Max Nori, 2006 Zeolite Dissolution Phenomena Ryan Lee Hartman, 2006 **Elements of Chemical Reaction Engineering** H. Scott Fogler, 1999 The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the book It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem solving employing open ended questions and stressing the Socratic method Clear and organized it integrates text visuals and computer simulations to help readers solve even the most challenging problems through reasoning rather than by memorizing equations **BOOK JACKET** **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

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