

FOURTH SEMESTER BTECH DEGREE EXAMINATION 2015

(SCHEME: 2013)

13.402 CHEMICAL AND BIOCHEMICAL REACTION ENGINEERING (B)

Time:3Hours

Max. Marks: 100

PART - A

Answer all questions. Each question carries 2 marks.

1. Given the reaction $2\text{NO}_2 + 1/2 \text{O}_2 \longrightarrow \text{N}_2\text{O}_5$, what is the relation between the rates of formation and disappearance of the reaction components?
2. What is the significance of activation energy?
3. Analyse the performance of SCSR and CSTR based on handling of catalyst decay and ease of sampling and analysis?
4. What is the concept of ideality in a PFR?
5. What are the moments of RTD?
6. What is meant by stability of a bioreactor?
7. What is meant by optimum recycle ratio?
8. What are structured kinetic models?
9. What is an adiabatic operating line?
10. What is the importance of stimulus response studies in reactor analysis?

PART - B

Answer any one question from each module. Each full question carries 20 marks.

Module I

11. The reaction between A and B giving C and D as the products was studied in a batch reactor. The concentration-time data obtained are as follows.

Time(min)	:0	50	100	150	200	250	300
$C_A(\text{mol/dm}^3) \times 10^3$:50	38	30.6	25.6	22.2	19.5	17.4

Obtain the reaction rate constant and the order of the reaction using differential method of analysis if the concentration of A and B were 0.5 mol/dm^3 initially.

Or

Chemical Reaction Engineering Question Papers

**Institution of Chemical Engineers
(Great Britain)**



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Chemical Reaction Engineering, 1965 **Elements of Chemical Reaction Engineering** H. Scott Fogler, Bryan R. Goldsmith, Eranda Nikolla, Nirala Singh, 2025-03-19 The Essential Textbook for Mastering Chemical Reaction Engineering Now Fully Updated with Expanded Coverage of Electrochemical Reactors H Scott Fogler's Elements of Chemical Reaction Engineering now in its seventh edition continues to set the standard as the leading textbook in chemical reaction engineering This edition coauthored by Bryan R Goldsmith Eranda Nikolla and Nirala Singh still offers Fogler's engaging and active learning experience with updated content and expanded coverage of electrochemical reactors Reflecting current theories and practices and with a continuing emphasis on safety and sustainability this edition includes expanded sections on molecular simulation methods analysis of experimental reactor data and catalytic reactions Leveraging the power of Wolfram Python POLYMATH and MATLAB students can explore the intricacies of reactions and reactors through realistic simulation experiments This hands on approach allows students to clearly understand the practical applications of theoretical concepts This book prepares undergraduate students to apply chemical reaction kinetics and physics to the design of chemical reactors Advanced chapters cover graduate level topics including diffusion and reaction models residence time distribution and tools to model non ideal reactors The seventh edition includes An expanded section on molecular simulation methods and potential energy surfaces Updated examples of experimental reactor data and its analysis Detailed discussion of definitions in catalysis and examples of catalytic reactions Additional examples and an expanded section on surface reaction mechanisms and microkinetic modeling A new chapter on electrochemical reactors with example problems reflecting the growing importance of this field in renewable energy and industrial processes About the Companion Web Site umich.edu/elements/7e/index.html Comprehensive PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software including POLYMATHTM MATLABTM Python Wolfram MathematicaTM AspenTechTM and COMSOLTM Interactive learning resources linked to each chapter including Learning Objectives Summary Notes Web Modules Interactive Computer Games Solved Problems FAQs additional homework problems and links to LearnChemE and other resources Living Example Problems provide interactive simulations allowing students to explore the examples and ask what if questions Professional Reference Shelf which includes advanced content on reactors weighted least squares experimental planning pharmacokinetics detailed explanations of key derivations and more Redesigned Web site to increase accessibility Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details *Chemical Reaction Engineering and Reactor Technology* Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Warna, 2010-08-30 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor

Chemical Reaction Engineering European Federation of Chemical Engineering, 1957 **New Developments and Application in Chemical Reaction Engineering** Hyun-Ku Rhee, In-Sik Nam, Jong Moon Park, 2006-05-10 This Proceedings of APCRE 05 contains the articles that were presented at the 4th Asia Pacific Chemical Reaction Engineering Symposium APCRE 05 held at Gyeongju Korea between June 12 and June 15 2005 with a theme of New Opportunities of Chemical Reaction Engineering in Asia Pacific Region Following the tradition of APCRE Symposia and ISCRE the scientific program encompassed a wide spectrum of topics including not only the traditional areas but also the emerging fields of chemical reaction engineering into which the chemical reaction engineers have successfully spearheaded and made significant contributions in recent years In addition to the 190 papers being accepted six plenary lectures and 11 invited lectures are placed in two separate chapters in the front Provides an overview of new developments and application in chemical reaction engineering Topics include traditional and emerging fields Papers reviewed by experts in the field **Elements of Chemical Reaction Engineering** EduGorilla Prep Experts, 2024-06-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Reaction Engineering for Pollution Prevention R.P. Hesketh, Martin A. Abraham, 2000-02-09 This book defines environmental reaction engineering principles including reactor design for the development of processes that provide an environmental benefit With regard to pollution prevention the focus is primarily on new reaction and reactor technologies that minimize the production of undesirable side products pollutants but the use of reaction engineering as a means of treating wastes that are produced through other means is also considered First is a section on environmentally benign combustion The three papers discuss methods of reducing the formation of PAHs and NO_x as well as other environmentally sensitive combustion products The next section contains a collection of contributions that involve the use of a catalyst to support the reaction Following this is a section on the use of supercritical fluid solvents as environmentally friendly media for chemical reactions Finally a series of papers is presented in which novel reactor designs are utilized to obtain product yields not possible in conventional reactor systems These include the use of reactor absorber systems reactive distillation and reactive membranes The book concludes with a chapter contributed by the editors which discusses the educational aspects of pollution prevention It is necessary for future generations of engineers to be trained to design processes that are inherently environmentally benign This chapter assembles resource materials for educators which will spark the creative instincts of the researchers using the materials contained within this book to develop new resources for pollution prevention education The broad spectrum of topics included in this book indicates the diversity of this area and the vibrant nature of the ongoing research The possibilities of producing desirable products without the formation of waste byproducts are bounded only by the creativity of the reaction engineer *Chemical Reaction*

Engineering Kenneth B. Bischoff, 1972 Chemical Reaction Engineering, Boston James Wei, Christos Georgakis, 1981

Chemical Reaction Engineering, II Hugh M. Hulburt, American Chemical Society, 1974 *Tenth International Symposium on Chemical Reaction Engineering* J. R. Bourne, W. Regenass, W. Richarz, 2017-05-04 ISCRE 10 Tenth International Symposium on Chemical Reaction Engineering documents the proceedings of the symposium which brought together experts from all over the world to discuss developments in CRE Efforts were made to cover high added value substances and to encourage papers from industry Some success was achieved but there remain significant gaps between Chemists and Chemical Engineers when considering high added value products as well as between researchers and practitioners of CRE The volume begins with plenary papers covering topics such as challenges in reactor modeling bioreactor engineering the design of reaction systems for specialty organic chemicals This is followed by papers presented during the eight technical sessions Technical session A focused on the modeling and control of chemical reactions Technical session B was devoted to studies on biotechnology Technical session C covered mixing while Technical session D dealt with special reactor systems and chemicals The papers in Technical session E examined reactions for emission control and recycling Technical session F covered the safety aspects of CRE Technical session G focused on the experiments with multiphase reactions while Technical session H dealt with catalytic reactors *Chemical Reaction Engineering--Houston V.* W. Weekman (jr), Dan Luss, 1978 **British Chemical Engineering**, 1970 Essentials of Chemical Reaction Engineering H. Scott Fogler, 2017-10-26 Today's Definitive Undergraduate Level Introduction to Chemical Reaction Engineering Problem Solving For 30 years H Scott Fogler's Elements of Chemical Reaction Engineering has been the 1 selling text for courses in chemical reaction engineering worldwide Now in Essentials of Chemical Reaction Engineering Second Edition Fogler has distilled this classic into a modern introductory level guide specifically for undergraduates This is the ideal resource for today's students learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem solving skills Fogler successfully integrates text visuals and computer simulations and links theory to practice through many relevant examples This updated second edition covers mole balances conversion and reactor sizing rate laws and stoichiometry isothermal reactor design rate data collection analysis multiple reactions reaction mechanisms pathways bioreactions and bioreactors catalysis catalytic reactors nonisothermal reactor designs and more Its multiple improvements include a new discussion of activation energy molecular simulation and stochastic modeling and a significantly revamped chapter on heat effects in chemical reactors To promote the transfer of key skills to real life settings Fogler presents three styles of problems Straightforward problems that reinforce the principles of chemical reaction engineering Living Example Problems LEPS that allow students to rapidly explore the issues and look for optimal solutions Open ended problems that encourage students to use inquiry based learning to practice creative problem solving skills About the Web Site umich.edu/elements/5e/index.html The companion Web site offers extensive enrichment opportunities and

additional content including Complete PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software including Polymath MATLAB Wolfram Mathematica AspenTech and COMSOL Multiphysics Interactive learning resources linked to each chapter including Learning Objectives Summary Notes Web Modules Interactive Computer Games Computer Simulations and Experiments Solved Problems FAQs and links to LearnChemE Living Example Problems that provide more than 75 interactive simulations allowing students to explore the examples and ask what if questions Professional Reference Shelf containing advanced content on reactors weighted least squares experimental planning laboratory reactors pharmacokinetics wire gauze reactors trickle bed reactors fluidized bed reactors CVD boat reactors detailed explanations of key derivations and more Problem solving strategies and insights on creative and critical thinking Register your product at informit.com register for convenient access to downloads updates and or corrections as they become available

Advances in Chemical Engineering, 1992-02-03 **Advances in Chemical Engineering** **Applied Kinetics and Chemical Reaction Engineering** Robert L. Goring, Vern W. Weekman, 1967 **Engineering**, 1902

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The eighth International Symposium on Chemical Reaction Engineering Institution of Chemical Engineers (Great Britain), 1984 **Frontiers in Chemical Reaction Engineering** Laxmangudi Krishnamurthy Doraiswamy, R. A. Mashelkar, 1984

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