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where either a homogeneous or heterogeneous catalyst is present in the reactor. Sometimes a reactor per se is not present by itself, but rather is ...

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Solve problem 1-15 from Elements of Chemical Reaction Engineering.

Book Problem 1-15 (Elements of Chemical Reaction Engineering)

This page contains lecture notes from a typical Chemical Reaction Engineering class. Two different sources of lecture notes are provided from the respective professors and their institutions. University of Michigan: University of Illinois: Che344- Chemical Reactions Engineering:

Elements of Chemical Reaction Engineering

Chemical Reaction Engineering II.

L1-Introduction to catalysts and catalysis; L2-Steps in catalytic reaction: adsorption, desorption and reaction

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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.

Introduction - Conduction - Convection - Radiation - Heat Exchange Equipments - Evaporation - Diffusion - Distillation - Gas Absorption - Liquid Liquid Extraction - Crystallisation - Drying - Appendix I Try yourself - Appendix II Thermal

conductivity data - Appendix III Steam tables

This well received textbook develops the concept of chemical reaction engineering in a systematic manner, beginning with

homogeneous reactors and gradually moving toward more complicated heterogeneous systems. Reactor technology is presented in an illustrative manner with many practical and varied applications included. Numerous realistic exercises help upper undergraduate and graduate students learn the concepts

presented. A modern computing approach to chemical reaction engineering is taken throughout the material. The real-life examples make the book very attractive for a broad audience, including engineers working in chemical and process industry.

Chemical reaction engineering is at the

core of chemical engineering education. Unfortunately, the subject can be intimidating to students, because it requires a heavy dose of mathematics. These mathematics, unless suitably explained in the context of the physical phenomenon, can confuse rather than enlighten students. Bearing this in mind,

Reaction Engineering Principles is written primarily from a student's perspective. It is the culmination of the author's more than twenty years of experience teaching chemical reaction engineering. The textbook begins by covering the basic building blocks of the subject—stoichiometry, kinetics, and

thermodynamics ensuring students gain a good grasp of the essential concepts before venturing into the world of reactors. The design and performance evaluation of reactors are conveniently grouped into chapters based on an increasing degree of difficulty. Accordingly, isothermal reactors batch and ideal flow types are

addressed first, followed by non-isothermal reactor operation, non-ideal flow in reactors, and some special reactor types. For better comprehension, detailed derivations are provided for all important mathematical equations. Narrative of the physical context in which the formulae work adds to the clarity of thought. The

use of mathematical formulae is elaborated upon in the form of problem solving steps followed by worked examples. Effects of parameters, changing trends, and comparisons between different situations are presented graphically. Self-practice exercises are included at the end of each chapter.

Appropriate for a one-semester undergraduate or first-year graduate course, this text introduces the quantitative treatment of chemical reaction engineering. It covers both homogeneous and heterogeneous reacting systems and examines chemical reaction engineering as

well as chemical reactor engineering. Each chapter contains numerous worked-out problems and real-world vignettes involving commercial applications, a feature widely praised by reviewers and teachers. 2003 edition.

This textbook is targetted to undergraduate

students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The application of these principles to

separation processes is explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in

equipment have been included as far as possible. The procedure of equipment design and sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. Humidification and water cooling, necessary in every process indus-try, is

also described. Finally, elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered. SALIENT FEATURES : A balanced coverage of theoretical principles and applications. Important recent developments in mass transfer equipment and practice are

included. A large number of solved problems of varying levels of complexities showing the applications of the theory are included. Many end-chapter exercises. Chapter-wise multiple choice questions. An Instructors manual for the teachers.

This textbook is intended for courses in

heat transfer for undergraduates, not only in chemical engineering and related disciplines of biochemical engineering and chemical technology, but also in mechanical engineering and production engineering. The author provides the reader with a very thorough account of the fundamental principles and their

applications to engineering practice, including a survey of the recent developments in heat transfer equipment.The three basic modes of heat transfer - conduction, convection and radiation - have been comprehensively analyzed and elucidated by solving a wide range of practical and design-oriented

problems. A whole chapter has been devoted to explain the concept of the heat transfer coefficient to give a feel of its importance in tackling problems of convective heat transfer. The use of the important heat transfer correlations has been illustrated with carefully selected examples.