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Introduction to

Chemical Engineering

S. Pushpavanam



Introduction to Chemical Engineering, S. PUSHPAVANAM, PHI Learning Pvt. Ltd., 2012, 8120345770, 9788120345775, 184 pages. This book is an outgrowth of the author's teaching experience of a course on Introduction to Chemical Engineering to the first-year chemical engineering students of the Indian Institute of Technology Madras. The book serves to introduce the students to the role of a chemical engineer in society. In addition to the classical industries, the role of chemical engineers in several esoteric areas such as semiconductor processing and biomedical engineering is discussed. Besides highlighting the principles and processes of chemical engineering, the book shows how chemical engineering concepts from the basic sciences and economics are used to seek solutions to engineering problems. The book is rich in examples of innovative solutions found to problems faced in chemical industry. It includes a wide spectrum of topics, selected from the industrial interactions of the author. It encourages the student to see the similarities in the concepts which govern apparently dissimilar examples. It introduces various concepts, using both physical and mathematical bases, to facilitate the understanding of difficult processes such as the scale-up process. The book contains several case studies on safety, ethics and environmental issues in chemical process industries..

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STOICHIOMETRY AND PROCESS CALCULATIONS , K. V. NARAYANAN, B. LAKSHMIKUTTY, Jan 1, 2006, Technology & Engineering, 604 pages. This textbook is designed for undergraduate courses in chemical engineering and related disciplines such as biotechnology, polymer technology, petrochemical engineering

BIOCHEMICAL ENGINEERING PRINCIPLES AND CONCEPTS, SYED TANVEER AHMED INAMDAR, Sep 5, 2012, Technology & Engineering, 468 pages. The book, now in its Third Edition, continues to offer the basic concepts and principles of biochemical engineering. It covers the curriculum for a first-course in Biochemical

Complete Confined Spaces Handbook , John F. Rekus, Jul 15, 1994, Technology & Engineering, 400 pages. This book provides plant managers, supervisors, safety professionals, and industrial hygienists with recommended procedures and guidance for safe entry into confined spaces. It

Health and Safety in Small Industry , Umdmj, Mar 1, 1989, Technology & Engineering, 203 pages. This easy-to-use new manual guides managers and specialists of small and medium size companies who must comply with State/Federal regulations-to protect both companies and

DESIGN AND ANALYSIS OF EXPERIMENTS , R. PANNERSELVAM, Nov 24, 2012, Technology & Engineering, 576 pages. Designed primarily as a text for the undergraduate and postgraduate students of industrial engineering, chemical engineering, production engineering, mechanical engineering

Application of chemical engineering to problems in biology and ..., Part 1 Part I: Engineering analysis of the functions of blood, Kenneth H. Keller, Edward F. Leonard, American Institute of Chemical Engineers, 1968, Medical, 183 pages. .

Chemical Reaction Engineering: Proceedings, Volume 6 Proceedings, , 1976, Technology & Engineering, . .

PROCESS SIMULATION AND CONTROL USING ASPENTM , AMIYA K. JANA, Mar 17, 2012, Technology & Engineering, 372 pages. Solving the model structure with a large equation set becomes a challenging task due to the involvement of several complex processes in an industrial plant. To overcome these

CHEMICAL PROCESS EQUIPMENT: DESIGN AND DRAWING, Volume 1 DESIGN AND DRAWING, SURESH C. MAIDARGI, Nov 17, 2012, Technology & Engineering, 152 pages. This text introduces the student to the practices and standards of making drawings for equipment used in chemical industries. The textbook follows the Bureau of Indian

MEMBRANE SEPARATION PROCESSES , KAUSHIK NATH, Jun 4, 2008, Technology & Engineering, 336 pages. This concise and systematically organized text gives a clear insight into various membrane separation processes, covering the fundamentals as well as the recent developments of

An Introduction to Chemical Engineering; An Elementary Textbook for the Use of Students and Users of Chemical Machinery , Alfred Frederick Allen, Jan 10, 2012, , 306 pages. Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books

Liquid fuels , David Alan Williams, Gwynn Jones, 1963, Science, 178 pages. .

Chemical Engineering Practice: Chemical kinetics , Herbert W. Cremer, Trefor Rendall Davies, Sidney B. Watkins, 1965, , . .

This book is an outgrowth of the author's teaching experience of a course on Introduction to Chemical Engineering to the first-year chemical engineering students of the Indian Institute of Technology Madras. The book serves to introduce the students to the role of a chemical engineer in society. In addition to the classical industries, the role of chemical engineers in several esoteric areas such as semiconductor processing and biomedical engineering is discussed. Besides highlighting the principles and processes of chemical engineering, the book shows how chemical engineering concepts from the basic sciences and economics are used to seek solutions to engineering problems.

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The book presents the principles and practices of chemical engineering, and introduces the student to the role and importance of chemical engineers in our life. It shows how chemical engineering concepts from the basic sciences and economics are used to seek solutions to engineering problems. This text offers innovative solutions to the problems faced by the chemical industry. It

encourages the student to see the similarities in the concepts which govern apparently dissimilar examples. The text is primarily intended for the first-year undergraduate students of chemical engineering.

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This comprehensive, well organized and easy to read book presents concepts in a unified framework to establish a similarity in the methods of solutions and analysis of such diverse systems as algebraic equations, ordinary differential equations and partial differential equations. The distinguishing feature of the book is the clear focus on analytical methods of solving equations. The text explains how the methods meant to elucidate linear problems can be extended to analyse nonlinear problems. The book also discusses in detail modern concepts like bifurcation theory and chaos. To attract engineering students to applied mathematics, the author explains the concepts in a clear, concise and straightforward manner, with the help of examples and analysis. The significance of analytical methods and concepts for the engineer/scientist interested in numerical applications is clearly brought out. Intended as a textbook for the postgraduate students in engineering, the book could also be of great help to the research students.

algebraic equations arise attractor bifurcation diagram bifurcation point bifurcation theory boundary conditions chaotic Chapter characteristic chemical engineering coefficients complex concept Consider constant converge coordinates corresponding CSTR defined denoted dependent determined differential operator dimension discussed domain dynamical system eigenfunctions eigenvalue problem eigenvectors elliptic evolution Example finite fixed point Fourier transform geometric Green's function heat Hence implies independent variable infinite dimensional infinite number initial condition initial guess integral iterate limit cycle linear algebraic linear combination mathematical matrix maximum principles metric modelling nonlinear equations nonzero norm obtain occur one-dimensional ordinary differential equations orthogonal parabolic parameter partial differential equations period-doubling period-doubling bifurcation period-two periodic perturbation phase-plane r-direction reaction reactor representation represents satisfies scalar self-adjoint operator separation of variables sequence shown in Fig solving spatial stability Stakgold steady surface system behaviour Taking the inner-product temperature theorem trajectory two-dimensional unit circle unstable vector space Weinberger yields zero

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