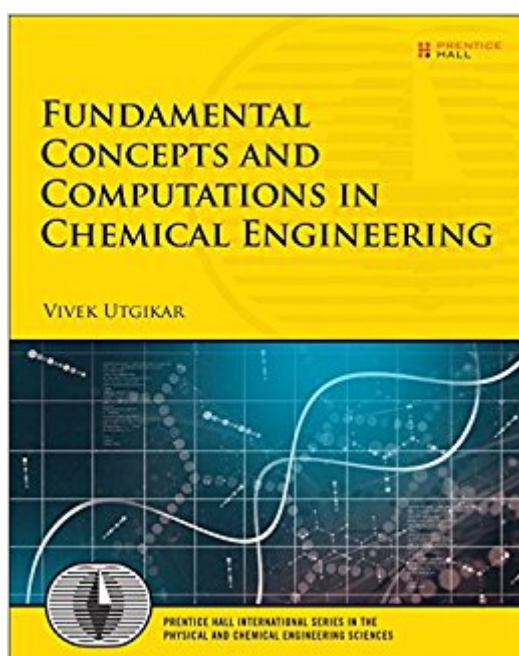


The book was found

Fundamental Concepts And Computations In Chemical Engineering (Prentice Hall International Series In The Physical And Chemical Engineering Sciences)



Synopsis

The Breakthrough Introduction to Chemical Engineering for Today's Students is well designed for today's chemical engineering students, offering lucid and logically arranged text that brings together the fundamental knowledge students need to gain confidence and to jumpstart future success. Dr. Vivek Utgikar illuminates the day-to-day roles of chemical engineers in their companies and in the global economy. He clearly explains what students need to learn and why they need to learn it, and presents practical computational exercises that prepare beginning students for more advanced study. Utgikar combines straightforward discussions of essential topics with challenging topics to intrigue more well-prepared students. Drawing on extensive experience teaching beginners, he introduces each new topic in simple, relatable language, and supports them with meaningful example calculations in Microsoft Excel and Mathcad. Throughout, Utgikar presents practical methods for effective problem solving, and explains how to set up and use computation tools to get accurate answers. Designed specifically for students entering chemical engineering programs, this text also serves as a handy, quick reference to the basics for more advanced students, and an up-to-date source of valuable information for educators and professionals. Coverage includes

- Where chemical engineering fits in the engineering field and overall economy
- Modern chemical engineering and allied industries and their largest firms
- How typical chemical engineering job functions build on what undergraduates learn
- The importance of computations, and the use of modern computational tools
- How to classify problems based on their mathematical nature
- Fundamental fluid flow phenomena and computational problems in practical systems
- Basic principles and computations of material and energy balance
- Fundamental principles and calculations of thermodynamics and kinetics in chemical engineering
- How chemical engineering systems and problems integrate and interrelate in the real world
- Review of commercial process simulation software for complex, large-scale computation

Book Information

Series: Prentice Hall International Series in the Physical and Chemical Engineering Sciences

Paperback: 320 pages

Publisher: Prentice Hall; 1 edition (November 19, 2016)

Language: English

ISBN-10: 0134593944

ISBN-13: 978-0134593944

Product Dimensions: 7.9 x 0.8 x 9.9 inches

Shipping Weight: 0.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #75,071 in Books (See Top 100 in Books) #51 in [Books > Textbooks >](#)

[Engineering > Chemical Engineering](#) #80 in [Books > Engineering & Transportation >](#)

[Engineering > Chemical](#) #695 in [Books > Science & Math > Chemistry](#)

Customer Reviews

Dr. Vivek Utgikar is a professor of chemical engineering in the Department of Chemical and Materials Engineering and is the Associate Dean of Research and Graduate Education for the College of Engineering of the University of Idaho. He has also served as the director of the nuclear engineering program of the University of Idaho. Dr. Utgikar's teaching portfolio includes a broad range of chemical and nuclear engineering courses such as transport phenomena, kinetics, thermodynamics, electrochemical engineering, hydrogen, and spent nuclear fuel disposition/management. His research interests include energy systems, nuclear fuel cycle processes, modeling of multiphase systems, and bioremediation. He was a National Research Council Associate at the National Risk Management Research Laboratory of the U.S. Environmental Protection Agency in Cincinnati, Ohio, prior to joining the University of Idaho. Dr. Utgikar is a registered professional engineer with process development, design and engineering experience in chemical industry, and holds a Ph.D. in chemical engineering from the University of Cincinnati. His other degrees include bachelor's and master's degrees in chemical engineering from the Mumbai University, India.

[Download to continue reading...](#)

Fundamental Concepts and Computations in Chemical Engineering (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Basic Principles and Calculations in Chemical Engineering (8th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fundamentals of Chemical Engineering Thermodynamics (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Elements of Chemical Reaction Engineering (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Bioprocess Engineering: Basic Concepts (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Chemical Process Safety: Fundamentals with Applications (3rd

Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fundamentals of Network Analysis and Synthesis (Prentice-Hall electrical engineering series. Solid state physical electronics series. Prentice-Hall networks series) Essentials of Chemical Reaction Engineering (Prentice Hall International Series in Physical and Chemical Engineering) Advanced Mechanics of Materials and Applied Elasticity (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Advanced Mechanics of Materials and Applied Elasticity (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Process Fluid Mechanics, (Prentice-Hall International Series in the Physical and Chemical Engineering Sciences) Electrochemical Systems (Prentice-Hall International Series in the Physical and Chemical Engineering Sciences) Introductory Chemical Engineering Thermodynamics (2nd Edition) (Prentice Hall International Series in the Physical and Chemi) PRENTICE HALL MATH ALGEBRA 1 STUDENT WORKBOOK 2007 (Prentice Hall Mathematics) Prestressed Concrete Structures/Book and Disk (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Dynamics of Structures (5th Edition) (Prentice-Hall International Series I Civil Engineering and Engineering Mechanics) Dynamics of Structures (4th Edition) (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Dynamics of Structures (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)