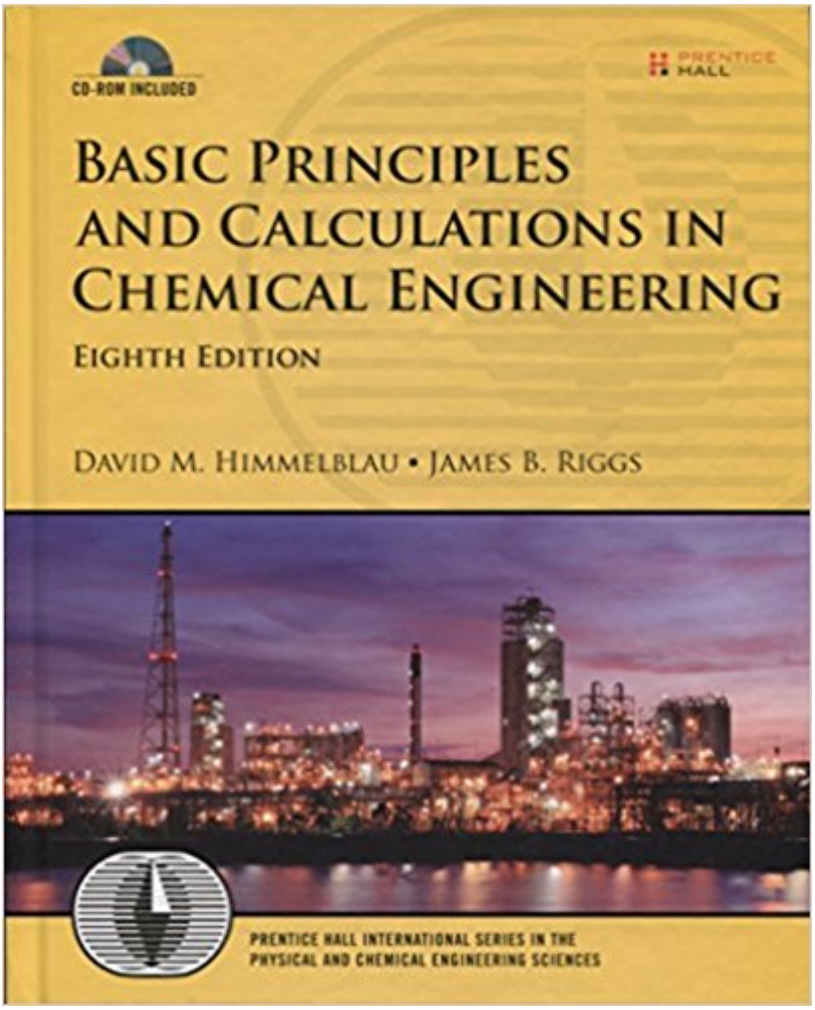
Basic Principles And Calculations In Chemical Engineering (8th Edition) (Prentice Hall International Series In The Physical And Chemical Engineering Sciences)




PDF
Adobe
DOWNLOAD EBOOK

Synopsis

The Number One Guide to Chemical Engineering Principles, Techniques, Calculations, and Applications: Now Even More Current, Efficient, and Practical Ã Â Basic Principles and Calculations in Chemical Engineering, Eighth Edition goes far beyond traditional introductory chemical engineering topics, presenting applications that reflect the full scope of contemporary chemical, petroleum, and environmental engineering. Celebrating its fiftieth Anniversary as the fieldÃ¢â ¬â„¢s leading practical introduction, it has been extensively updated and reorganized to cover todayÃ¢â ¬â„¢s principles and calculations more efficiently, and to present far more coverage of bioengineering, nanoengineering, and green engineering. Ã Â Offering a strong foundation of skills and knowledge for successful study and practice, it guides students through formulating and solving material and energy balance problems, as well as describing gases, liquids, and vapors. Throughout, the authors introduce efficient, consistent, student-friendly methods for solving problems, analyzing data, and gaining a conceptual, application-based understanding of modern chemical engineering processes. This editionÃ¢â ¬â„¢s improvements include many new problems, examples, and homework assignments. Ã Â Coverage includes Modular chapters designed to support introductory chemical engineering courses of any length Thorough introductions to unit conversions, basis selection, and process measurements Consistent, sound strategies for solving material and energy balance problems Clear introductions to key concepts ranging from stoichiometry to enthalpy Behavior of gases, liquids, and solids: ideal/real gases, single component two-phase systems, gas-liquid systems, and more Self-assessment questions to help readers identify areas they donÃ¢â ¬â„¢t fully understand Thought/discussion and homework problems in every chapter New biotech and bioengineering problems throughout New examples and homework on nanotechnology, environmental engineering, and green engineering Extensive tables, charts, and glossaries in each chapte Many new student projects Reference appendices presenting atomic weights and numbers, Pitzer Z factors, heats of formation and combustion, and more Ã Â Practical, readable, and exceptionally easy to use, Basic Principles and Calculations in Chemical Engineering, Eighth Edition, is the definitive chemical engineering introduction for students, license candidates, practicing engineers, and scientists. Ã Â CD-ROM INCLUDES The latest Polymath trial software for solving linear, nonlinear, and differential equations and regression problems Point-and-click physical property database containing 700+ compounds Supplemental Problems Workbook containing 100+ solved problems Descriptions and animations of modern process equipment Chapters on degrees of freedom, process simulation, and unsteady-state material balances Expert advice for beginners on problem-solving in chemical engineering Ã Â

Book Information

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

Hardcover: 800 pages

Publisher: Prentice Hall; 8 edition (June 10, 2012)

Language: English

ISBN-10: 0132346605

ISBN-13: 978-0132346603

Product Dimensions: 8.3 x 1.9 x 10.1 inches

Shipping Weight: 3.7 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars 16 customer reviews

Best Sellers Rank: #483,841 in Books (See Top 100 in Books) #133 inÃ Â Books > Science & Math > Chemistry > Industrial & Technical #303 inÃ Â Books > Textbooks > Engineering > Chemical Engineering #576 inÃ Â Books > Engineering & Transportation > Engineering > Chemical

Customer Reviews

David M. Himmelblau was (until his death in April) the American Petrofina Foundation Centennial Professor in Chemical Engineering at the University of Texas, Austin. The author of sixteen books, his areas of research included the use of artificial neural networks for fault diagnosis and data rectification. James B. Riggs is Professor in the Chemical Engineering Department at Texas Tech University, where he directs the Texas Tech Process Control and Optimization Consortium. His books include Chemical Process Control, Second Edition and An Introduction to Numerical Methods for Chemical Engineers, Second Edition.

First off, this book was required by my chemical engineering material and energy balances course. I initially bought the international edition since it was only like $15. However, each chapter continually left me with more questions than answers. As a result, I thoight it was information left out, since I bought the international edition. After purchasing the regular addition, they are literally Word for Word... Aside from a few questions at the end of each chapter. Come to find out, it’s not the international edition, it is the book. This book is almost totally worthless. There are literally sections that have one or two sentences. This book does not go into detail on how to perform the MEB calculations, nor is it helpful in my MEB class. I do not know why any professor would choose to use this book? Especially since there are great in MEB text books available. There is no solution, or

study guide material available to go along with this book. I literally had to take it upon myself to order A second, non-required, $150 book, to accompany, & to make up for all the slack left over from this one. Absurd! For reference, The second book I purchased, which is extremely helpful- "Principles of chemical engineering processes, materials and energy balance. Second edition. Ghasem and Henda," If you have the option, and you are merely purchasing this book for additional or supplementary material balance info.. Pass on this book!!

The product came with everything needed for the course. CD and Temperature/Pressure Constant Tables (which is a large folded paper pamphlet at the back of the book which you need to solve certain problems in the course.)Like other reviews here, one of the sections of the conversion tables is missing, in the hardcover version of the book the section that's missing is presented on the backside of the front section hardcover. Apparently it's not included in this version of the book (Paperback). Nevertheless it's something trivial as it's conversion tables that can be acquired through the internet with a simple google search or by taking photocopy of someone that owns the hardcover.To be honest the best thing about this book is the price. For 27 dollars I get 99.9% of what you would get with the hardcover version which starts at a whopping 100+ dollars. A great value for your buck and a book that is fundamental for more than one course in your degree.

Good reference book. Just be wary though, the paperback version has different numbers for the same problems in the hardcover book. Also, there's one less table (front cover conversions) in the paperback book from the hardcover.

I was sent an Indian edition. Worked out ok but I constantly had to cross-reference problems from the U.S. edition.

This fifty years edition is amazing and the authors' experience can be found in every page. I recomend this book for undergraduate students and chemical engineers

It's really helpful book for my class.

Excellent

received in great condition with no scratches or damage

Basic Principles and Calculations in Chemical Engineering (8th Edition) (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) Fundamental Concepts and Computations in Chemical Engineering (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) 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) 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) Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) 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)

Privacy

FAQ & Help