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~~Basic Principles and Calculations in Chemical Engineering~~

By (author) David Himmelblau , By (author) James Riggs. Share. The Number One Guide to Chemical Engineering Principles, Techniques, Calculations, and Applications: Now Even More Current, Efficient, and Practical. 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.

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Basic Principles and Calculations in Chemical Engineering, 8th Edition (International Series in the Physical and Chemical Engineering Sciences) 8th Edition. by David Himmelblau (Author), James Riggs (Author) 4.1 out of 5 stars 31 ratings. ISBN-13: 978-0132346603.

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Basic Principles and Calculations in Chemical Engineering (Paperback) Published November 1st 2011 by Pearson Education. Paperback, 800 pages. Author (s): David M. Himmelblau, James B. Riggs. ISBN: 0132835568 (ISBN13: 9780132835565) Edition language:

## ~~Editions of Basic Principles And Calculations In Chemical ...~~

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In this second edition of An Introduction to Numerical Methods for Chemical Engineers the author has revised text, added new problems, and updated the accompanying computer programs. The result is a text that puts students on the cutting-edge of solving relevant chemical engineering problems. Designed explicitly for undergraduates, this book provides students with software and experience to solve a number of problems. Included in the text are: Numerical algorithms in explicit detail. Example problems from thermodynamic, fluid flow, heat transfer, mass transfer, kinetics, and process design. Equations developed specifically for the student from the example problems. An introduction to advanced numerical techniques, such as finite elements, singular value decomposition, and arc length homotopy. An introduction to optimization. A systematic approach to process modeling presented with advanced modeling examples. The software that accompanies the book is for IBM-compatible PCs. A solution manual is also available upon request. An Introduction to Numerical Methods for Chemical Engineers was first published in 1988 and has been taught in universities throughout the nation.

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 field's leading practical introduction, it has been extensively updated and reorganized to cover today's principles and calculations more efficiently, and to present far more coverage of bioengineering, nanoengineering, and green engineering. 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 edition's improvements include many new problems, examples, and homework assignments.

Designed as a textbook for the undergraduate students of chemical engineering and related disciplines such as biotechnology, polymer technology, petrochemical engineering, electrochemical engineering, environmental engineering and safety engineering, the chief objective of the book is to prepare students to make analysis of chemical processes through calculations and to develop systematic problem-solving skills in them. The text presents the fundamentals of chemical engineering operations and processes in a simple style that helps the students to gain a thorough understanding of chemical process calculations. The book deals with the principles of stoichiometry to formulate and solve material and energy balance problems in processes with and without chemical reactions. With the help of examples, the book explains the construction and use of reference-substance plots, equilibrium diagrams, psychrometric charts, steam tables and enthalpy composition diagrams. It also elaborates on thermophysics and thermochemistry to acquaint the students with the thermodynamic principles of energy balance calculations. The book is supplemented with Solutions Manual for instructors containing detailed solutions of all chapter-end unsolved problems. NEW TO THE SECOND EDITION □ Incorporates a new chapter on Bypass, Recycle and Purge Operations □ Comprises updations in some sections and presents new sections on Future Avenues and Opportunities in Chemical Engineering, Processes in Biological

and Energy Systems □ Contains several new worked-out examples in the chapter on Material Balance with Chemical Reaction □ Includes GATE questions with answers up to the year 2016 in Objective-type questions KEY FEATURES □ SI units are used throughout the book. □ All basic chemical engineering operations and processes are introduced, and different types of problems are illustrated with worked-out examples. □ Stoichiometric principles are extended to solve problems related to bioprocessing, environmental engineering, etc. □ Exercise problems (more than 810) are organised according to the difficulty level and all are provided with answers.

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

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