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Text Book: Basic Principles and Calculations in Chemical Engineering, by David M. Himmelblau and James B Riggs, seventh Edition, 2004 Chemical Process Principles - I **Reference: Elementary Principles of Chemical Engineering**, by Richard Felder and Ronald Rousseau, Third Edition, 2000

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However, all of these formulas should be used with caution since they are sensitive to errors, and small differences in selected parameters can lead to large differences in the sample size. In this paper, we discuss the basic principles of sample size calculations, the most common pitfalls and the reporting of these calculations.

Best-selling introductory chemical engineering book - now updated with far more coverage of biotech, nanotech, and green engineering **Thoroughly covers material balances, gases, liquids, and energy balances. Contains new biotech and bioengineering problems throughout. Adds new examples and homework on nanotechnology, environmental engineering, and green engineering. All-new student projects chapter. Self-assessment tests, discussion problems, homework, and glossaries in each chapter. Basic Principles and Calculations in Chemical Engineering, 8/e, provides a complete, practical, and student-friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors introduce efficient and consistent methods for solving problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus. This text's features include: Thorough introductory coverage, including unit conversions, basis selection, and process measurements. Short chapters supporting flexible, modular learning. Consistent, sound strategies for solving material and energy balance problems. Key concepts ranging from stoichiometry to enthalpy. Behavior of gases, liquids, and solids. Many tables, charts, and reference appendices. Self-assessment tests, thought/discussion problems, homework problems, and glossaries in each chapter.**

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