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These unit operations are common to all types of diverse process industries. For examples, the unit operation distillation is used to purify or separate alcohol in the beverage industry and hydrocarbons in the petroleum industry. Drying of grain and other foods is similar to drying of lumber, filtered precipitates, and rayon yarn. The unit operation absorption occurs in absorption of oxygen

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Transport phenomena - Wikipedia

A "pure" unit operation is a physical transport process, while a mixed chemical/physical process requires modeling both the

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physical transport, such as diffusion, and the chemical reaction. This is usually necessary for designing catalytic reactions , and is considered a separate discipline, termed chemical reaction engineering .

Unit operation - Wikipedia

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The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels. Now *Transport Phenomena and Unit Operations: A Combined Approach* endeavors not only to introduce the fundamentals of the discipline to a broader, undergraduate-level audience but also to apply itself to the concerns of practicing engineers as they design, analyze, and

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This textbook is targeted to undergraduate students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The application of these principles to separation processes is explained. The more common separation processes used in the chemical

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industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in equipment have been included as far as possible. The procedure of equipment design and sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. Humidification and water cooling, necessary in every process industry, is also described. Finally, elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered. **SALIENT FEATURES :**

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