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Unit Operations and Processes in Environmental Engineering ...

This course addresses unit operations used in environmental engineering for the removal of pollutants from water and wastewater. It discusses mechanisms, operation principles, applications and design of pertinent processes, including sedimentation, filtration, coagulation and flocculation, ion exchange, membrane technologies, suspended-growth and fixed-film biological processes, nutrient removal processes and biosolids treatment processes.

Unit Operations in Environmental Engineering (1.2 CEUs)

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Unit Operations And Processes In Environmental Engineering ...

Examination of unit operations and processes encountered in the environmental engineering field that will assist in the design and operation of advanced water, wastewater, and waste management treatment systems. One hour of lecture and one hour discussion per week.

Environmental Engineering - Wilkes University

richards paul a 1996 unit operations introduction to chemical engineering processes what is a unit operation a unit operation is any part of potentially multiple step process which can be considered to have a single function unit operations and processes in environmental have the book unit operations and processes in environmental

This book discusses the practical aspects of environmental technology organized into eight chapters relating to unit operations as follows: 1. Biological Technology 2. Chemical Technology 3. Containment and Barrier Technology 4. Immobilization Technology 5. Membrane Technology 6. Physical Technology 7. Radiation and Electrical Technology 8. Thermal Destruction Technology Traditional technologies have been included, as well as those that can be considered innovative and emerging. The traditional approaches have been the most successful, as contractors are careful about bidding on some of the newer technologies. However, as regulatory requirements increase, markets will open for the innovative and emerging processes. There will be increasing pressure to break down complex waste streams, with each subsequent stream demanding separate treatment. In addition, a number of technologies have been developed by combining processes directly, or in a treatment train, and these developments are expected to assume increasing importance. However, such concerns as uncertainties due to liability, regulatory approval, price competition, and client approval have limited the application of some of these newer technologies.

The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich ' s 1961 classic work, " Unit Operations in Sanitary Engineering " . The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations. Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations, the goal of this book is to present the subject from a strictly pragmatic introductory point-of-view, particularly for those individuals involved with environmental engineering. This book

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is concerned with unit operations, fluid flow, heat transfer, and mass transfer. Unit operations, by definition, are physical processes although there are some that include chemical and biological reactions. The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process, and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operation equipment.

Chemical separations are of central importance in many areas of environmental science, whether it is the clean up of polluted water or soil, the treatment of discharge streams from chemical processes, or modification of a specific process to decrease its environmental impact. This book is an introduction to chemical separations, focusing on their use in environmental applications. The authors first discuss the general aspects of separation technology as a unit operation. They also describe how property differences are used to generate separations, the use of separating agents, and the selection criteria for particular separation techniques. The general approach for each technology is to present the chemical and/or physical basis for the process and explain how to evaluate it for design and analysis. The book contains many worked examples and homework problems. It is an ideal textbook for undergraduate and graduate students taking courses on environmental separations or environmental engineering.

In Optimization of Industrial Unit Processes, the term "optimization" means the maximizing of productivity and safety while minimizing operating costs. In a fully optimized plant, efficiency and productivity are continuously maximized while levels, temperatures, pressures, or flows float within their allowable limits. This control philosophy differs from earlier approaches - where levels and temperatures were controlled at constant values, and plant productivity was only an accidental, uncontrolled consequence of those controlled variables. With this approach, the sides of a multivariable control envelope are the various constraints while inside the envelope the process is continuously moved to maximize efficiency and productivity. Because one must understand a process before one can control it (let alone optimize it), Optimization of Industrial Unit Processes discusses the "personality" and characteristics of each process in term of its time constants, gains, and other unique features. This book provides information for engineers who design or operate industrial plants and who seek to increase the profitability of their plants. It recognizes that all industrial processes involve operations such as material transportation, heat transfer, and reactions. Therefore each plant consists of a combination of basic unit operations and can be optimized by maximizing the efficiency, and minimizing the operating cost, of the individual unit operations from which it is composed.

Optimization of Industrial Unit Processes discusses real world processes - where pipes leak, sensors plug, and pumps cavitate - offering

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practical solutions to real problems. Each control system described in the book works, illustrating the state of the art in controlling a particular unit operation. This second edition reflects the continual improvement and evolution of control systems as well as anticipates future advances. Bela G. Liptak speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

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